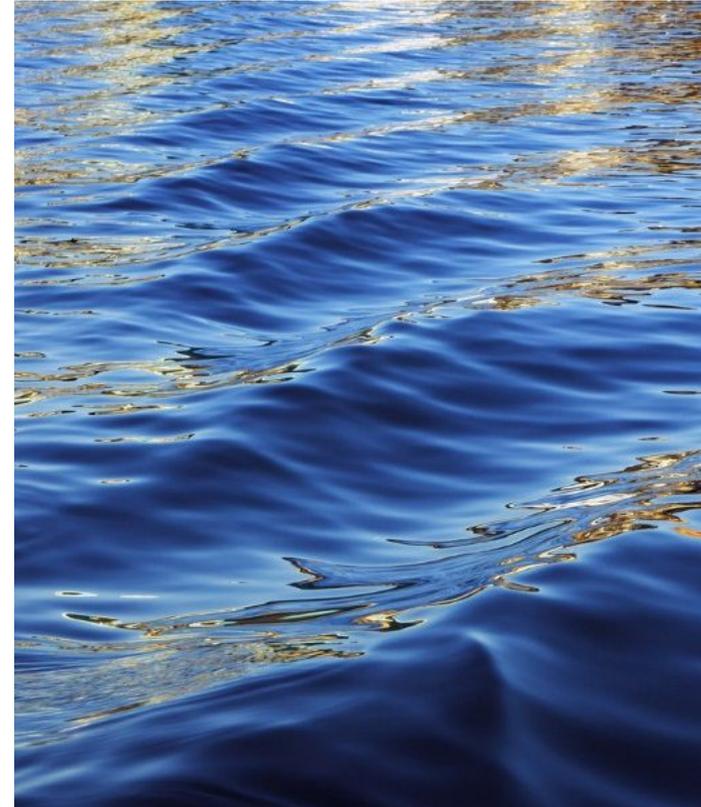




Expert user's manual

Inno-W's How-To series



Expera – The Knowledge Sharing Tool

Expera is a space for collaboration and knowledge sharing between the ERA-Net +SG core projects as well as external experts.

- maintains **Living Documents** of strategic topics
- **Spotlights** the on-going activities and results
- enables continuous virtual dialogue in **Working Groups**
- shares information on past and on-going **Projects** in the field
- gets you in touch with the **Experts**
- share the information on important **Events**
- shares the latest **News** with you

Expera Home



EDIT LINKS

Living Documents

- System Architecture and Modelling
- Storage and Cross Energy Carrier Synergies
- Standards and Interoperability
- Regulatory and Market Development
- Consumer and Citizen Involvement
- Scalability and Replicability

News

- 2nd ERA-Net SG+ Joint Call & expera successfully launched in Stockholm
Go, expera, go!
- The Working Group on Storage and Cross Energy Carrier Synergies has started its work
- First meeting of the Working Group on Regulatory and Market Development
- ERA-Net Smart Grids Plus Working Group on System Architecture and Modelling started

Working Groups

- System Architecture and Implementation Modelling
- Storage and Cross Energy Carrier Synergies
- Regulatory and Market Development
- Consumer and Citizen Involvement
- Interoperability and Standardisation

Events

- Kick-off for projects of the 1st ERA-Net SG+ call 15 June
- Joint meeting of all ERA-Net SG+ Working Groups 16 June

The Knowledge Community Platform

Expera, the cooperation platform of the ERA-NET Smart Grids Plus, allows for intensive communication between and cooperation of registered members of the Knowledge Community. With its Living Documents, Spot Lights and access to Working Groups it is a unique opportunity for experts to exchange their knowhow, opinions and expectations.

Terms of Use

When using the expera platform you have agreed to the [conditions of use](#).

Contacts

Support Team of ERA-Net Smart Grids Plus:
c/o B.A.U.M. Consult GmbH München/Berlin
responsible: Ludwig Karg, CEO
contact: Helena Geißler
E-mail: [knowledge-community\[at\]eranet-smartgridsplus.eu](mailto:knowledge-community[at]eranet-smartgridsplus.eu)

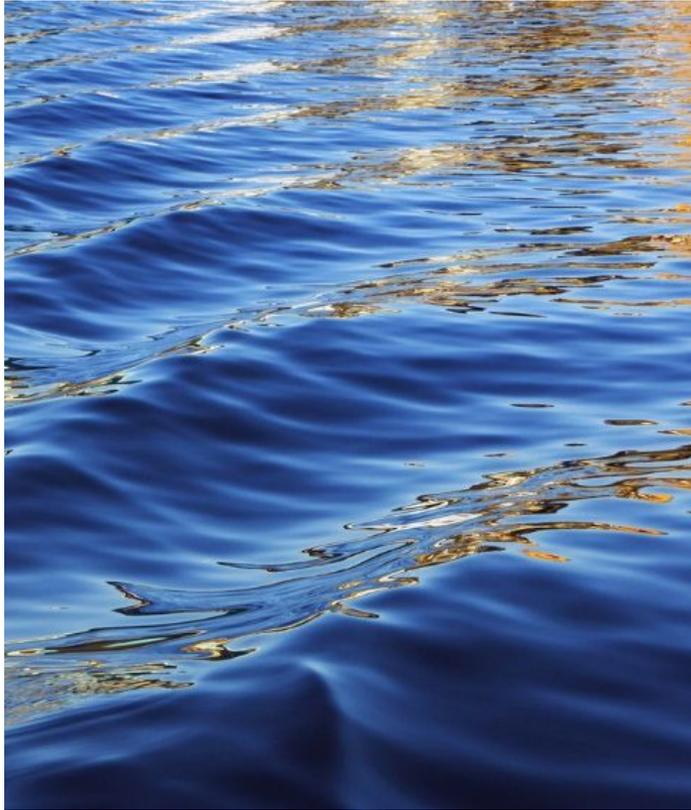
ERA-Net Smart Grids Plus Initiative:

www.eranet-smartgridsplus.eu



Functions		Expert	Follower
Expert profile	Set up your profile	x	
	Edit	x	
	Upload profile picture	x	
Living Documents	Read	x	x
	Comment	x	x
	Read and contribute to discussion fora	x	
Working Groups	Become member of the WGs	x	
	Register for WG meetings	x	
	Access WG documents	x	
Project database	Enter your projects	x	
	Edit your project profiles *)	x	
	Link your projects to your expert profile	x	
	Upload project reports and other documents	x	
News & Network	Receive the Newsletter	x	x
	See (other) expert profiles	x	

*) Projects database editing is currently limited to a subset of experts



Become an expera
member

Expera – Software requirements

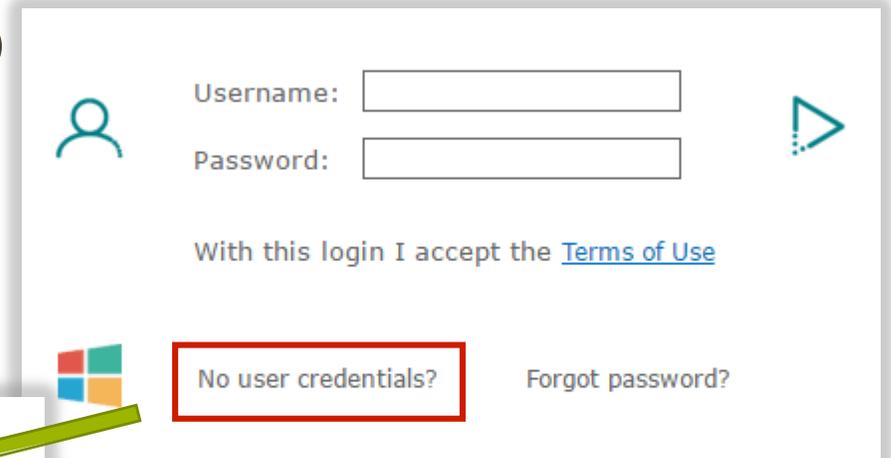
- Internet Explorer 8+
- Google chrome
- Firefox

Expera – Roles of members

- Follower
- Expert
- Admin

Register

- Open Expera portal site (<https://expera.smartgridsplus.eu>)
- Click "No user credentials?" link
- Click "Register as an expert"
- Fill in registration form



Username:

Password:

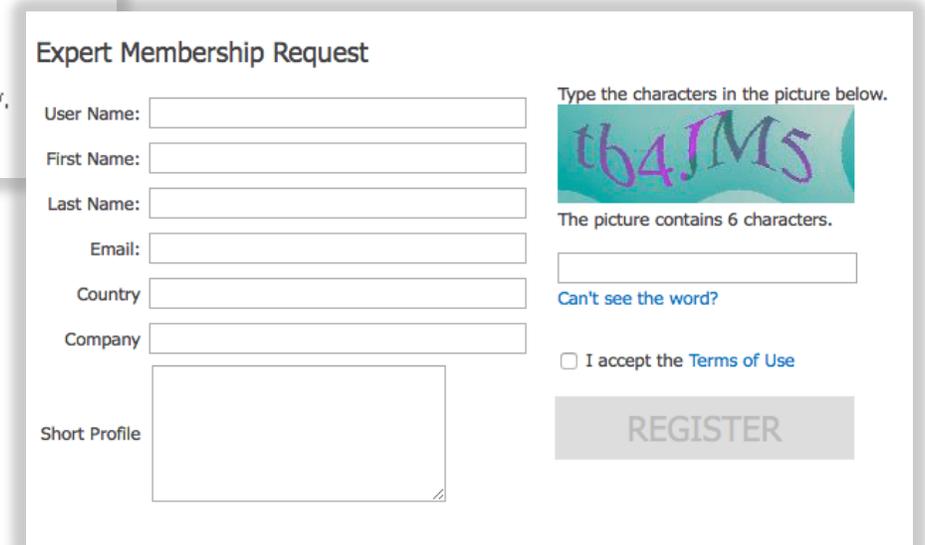
With this login I accept the [Terms of Use](#)

[No user credentials?](#) [Forgot password?](#)

Please select the type of account you'd like to obtain:

[Register as a follower](#). This gives you access as a guest to the Knowledge Community. You can read most of the content but not contribute much.

[Register as an expert](#). As an expert you will have more rights to contribute to the Knowledge Community. The Expera-Administrator will grant you these rights once you have entered your full expert profile.



Expert Membership Request

User Name:

First Name:

Last Name:

Email:

Country

Company

Short Profile

Type the characters in the picture below.



The picture contains 6 characters.

[Can't see the word?](#)

I accept the [Terms of Use](#)

REGISTER

Confirmation email upon your registration



Thank you for requesting membership of the ERA-Net Smart Grids Plus Knowledge platform expera.

You will soon receive an email with a temporary password to access the EXPERA knowledge platform.

This can take up to two days. Please also check your SPAM folder.

If you have any additional questions or require assistance, please contact the site administrator at knowledge-community@eranet-smartgridsplus.eu

Kind regards,

Your EXPERA team

Completing your registration

After your registration request has been approved, you'll receive an email with credentials and useful links:



Your request to join the ERA-Net Smart Grids Plus Knowledge platform expera as an expert has been processed.

You have been granted access to the expera knowledge platform with the following credentials:

user name: Demo Expert

temporary password: 123456789

Please click [here](#) to complete your expert profile.

Only if you complete your profile you will receive full expert rights and get access to all knowledge elements.

Please click [here](#) to change your password.

Once you have completed your expert profile and changed your password, you can use the EXPERA knowledge platform at <https://expera.smartgridsplus.eu>

If you have any additional questions or require assistance, please contact the site administrator at knowledge-community@eranet-smartgridsplus.eu

Kind regards,

Your EXPERA team

Note that only by completing your expert profile, you will receive full expert rights.

1. Login
2. Change your password

A screenshot of a login form with fields for "Username:" and "Password:", a "login" button, and links for "Terms of Use", "No user credentials?", and "Forgot password?".A screenshot of a "Change Password" form with fields for "Change Your Password", "Password:", "New Password:", and "Confirm New Password:", and "Change Password" and "Cancel" buttons.

If not found in your Inbox, please check the Junk mail.

Become a full expert member

Full Name

Email Address
 Other experts can see my email
If you choose not to show your email, your expert profile will be hidden from the experts list

Company

Job Title

Business Phone

Home Phone

Mobile Number

Fax Number

Address

City

State/Province

ZIP/Postal Code

Press this button if you are not yet ready to apply for full expert, but just want to save your data

Check this box if you want your profile to be listed on experts page

Click here to **start review** process of your profile. As soon as administrators approve/reject your profile, you'll get an information email

ListMeAsAnExpert

By listing your profile you agree to make your email visible to other experts

Approval of your full Expert profile



Thank you for your application.

Someone from the reviewers group will take a look at your profile and either approve or reject it. You will receive an email with the review results in the next two days.

In case your application has to be rejected, please provide more information, and then apply again!

We would be glad to see you as an active member and expert!

For any questions please contact us at knowledge-community@eranet-smartgridsplus.eu.

Your Expera Support Team

EXPERT PROFILE (IN REVIEW)  CONTACT  TERMS OF USE 

WORKING GROUPS PROJECTS EXPERTS EVENTS



Welcome as an expera expert!

We have evaluated your request and found that you can be a very valuable member of the ERA-Net SG+ Knowledge Community.

Please frequently use the services of expera and contribute to the Living Documents, the Working Groups and other ERA-Net Smart Grids Plus activities.

As a first step you may want to enter information about projects that you are or have been involved with. For that purpose please link to the expera project repository [here](#).

For any questions please contact us at knowledge-community@eranet-smartgridsplus.eu.

Your Expera Support Team

- Meanwhile your Expert profile is in review by the administration, your rights in expera are limited. You can edit your Expert profile even during the review.

Login

Smart Grids Plus
ERA-Net
Knowledge Community

expera

Username:

Password:

Login using KNOST Portal credentials

[Forgot password?](#) [Register as Expert](#) [Register](#)

Press enter or login button

Home page

List of experts

Personal settings and change password

The screenshot shows the home page of the Smart Grids Plus website. At the top right, a user profile 'Demo Expert' is visible with a dropdown arrow, a settings gear icon, and a help question mark icon. Below the navigation bar, the 'EXPERTS' menu item is highlighted with a red box. A red arrow points from the 'List of experts' text to this box. On the left side, the 'Events' section is highlighted with a red box, and a red arrow points from the 'Upcoming events' text to it. The 'Events' table contains two entries:

Title	Start Date	End Date
Working group meeting: System architecture	03.12.2015 11:00	04.12.2015 13:00
Working group meeting: Storage and Cross Energy Carrier Synergies	14.01.2016 09:00	15.01.2016 17:00

The main content area is divided into three columns: 'Living Documents', 'Projects', and 'Working Groups'. The 'Living Documents' column lists items like 'System Architecture and Modelling', 'Scalability and Replicability', and 'Storage and Cross Energy Carrier Synergies'. The 'Projects' column lists 'Large-Scale Demonstration of Advanced Smart GRID Solutions with wide Replication and Scalability Potential for EUROPE', 'eTelligence (Decentralized production and efficient energy use)', 'LINEAR', and 'ELSA - Energy Local Storage Advanced System'. The 'Working Groups' column lists 'Storage and Cross Energy Carrier Synergies', 'Standards and Interoperability', 'Regulatory and Market Development', 'System Architecture', and 'Consumer and Citizen Involvement'. On the right side, there are sections for 'Contacts' (Office ERA-Net Smart Grids Plus and Support Team of ERA-Net Smart Grids Plus) and 'Conditions of Use'.

Upcoming events

Edit your expert profile

- Open your profile either via direct link supplied in an email or find yourself in experts list

Last Name *	Expert
First Name	Demo
Full Name	Demo Expert
Email Address	sergiy.nikitin@inno-w.com
Company	Inno-W
Job Title	DevOps
Business Phone	
Home Phone	
Mobile Number	
Fax Number	
Address	Erottajankatu 19
City	Helsinki
State/Province	
ZIP/Postal Code	00130
Country/Region	Finland
Web Page	Type the Web address: (Click here to test) http://www.inno-w.com

Picture	<input type="text"/>
	Type the Web address: (Click here to test) http://
	Type the description: <input type="text"/>
Created at 03.12.2015 10:21 by <input type="checkbox"/> System Account	<input type="button" value="Save"/> <input type="button" value="Cancel"/>
Last modified at 03.12.2015 10:21 by <input type="checkbox"/> System Account	

Expert profile image upload

- If you have no image available freely on the internet , then image can be uploaded in two steps:
 - Attaching the image file
 - Setting the url to the file attached

The image shows a two-step process for uploading a file to a profile. The first step is clicking the 'Attach File' button in the 'EDIT' menu of a form. The second step is saving the form, which results in the file being listed in the 'Attachments' section. A 'Save' button is highlighted to indicate the final step.

File attachment button

Save the form to upload the file to the portal

File attached but not saved yet

BAUM

Last Name * Expert

First Name Demo

Full Name Demo Expert

Picture

Type the Web address: (Click here to test)

http://

Type the description:

Attachments Superman.png Delete

Created at 03.12.2015 10:21 by System Account

Last modified at 03.12.2015 15:53 by Demo Expert

Save Cancel

Expert profile image url setting

- Open your profile in edit mode again:
 - Now your file is uploaded and has url

Offerings

Attachments [Superman.png](#) Delete

Created at 03.12.2015 10:21 by System Account
Last modified at 03.12.2015 16:16 by Demo Expert

Save Cancel

Right-click the file and copy its url

Open Link in New Tab
Open Link in New Window
Open Link in New Private Window
Bookmark This Link
Save Link As...
Copy Link Location
Search Google for "Superman.png"
Inspect Element (Q)

Now insert the url copied and save it

Picture

Type the Web address: (Click here to test)

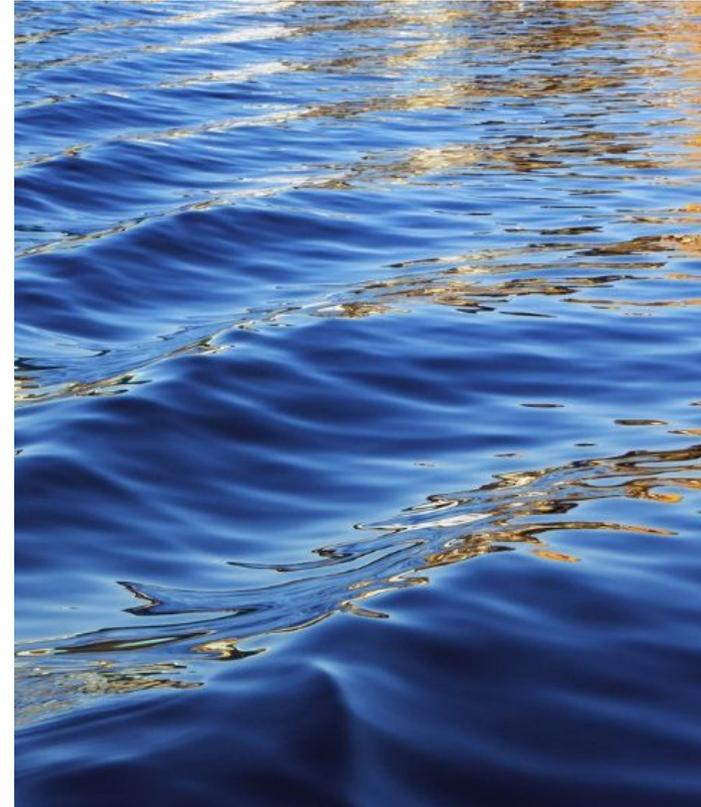
ost.smartgridsplus.eu/Lists/Experts/Attachments/10/Superman.png

Type the description:

Attachments [Superman.png](#) Delete

Created at 03.12.2015 10:21 by System Account
Last modified at 03.12.2015 16:16 by Demo Expert

Save Cancel



Contribute your
Knowledge

Bring your expertise

Living Documents are online documents that resemble the joint knowhow of the ERA-Net Smart Grids Plus Knowledge Community. Content for the Living Documents is being created by the Support Team from various sources but you have a great possibility to bring in your expertise and contribute to the development of these documents.

- Comment on the **Living Documents** of strategic topics
- Participate in the virtual dialogue in **Living documents**
- Create your Expert profile in Expera and let the others know your expertise

Access Living Documents

- Click “Living documents” or the individual links of the Living documents on the landing page
- Click the Chapter you want to read or contribute to

BROWSE PAGE

Smart Grids Plus
ERA-Net
Knowledge Community
expera

LIVING DOCUMENTS SPOTLIGHTS WORKING GROUPS

EDIT LINKS

Living Documents

- System Architecture and Modelling
- Storage and Cross Energy Carrier Synergies**
- Standards and Interoperability
- Regulatory and Market Development
- Consumer and Citizen Involvement
- Scalability and Replicability

News

2nd ERA-Net SG+ Joint Call & expera successfully launched in Stockholm

Chapters of the Living document

Living Document
Storage and Cross Energy Carrier Synergies

Chief Editor: Dr. Michael Stöhr (B.A.U.M.)
Expert Editors: Dr. Pia Saari (CLIC)

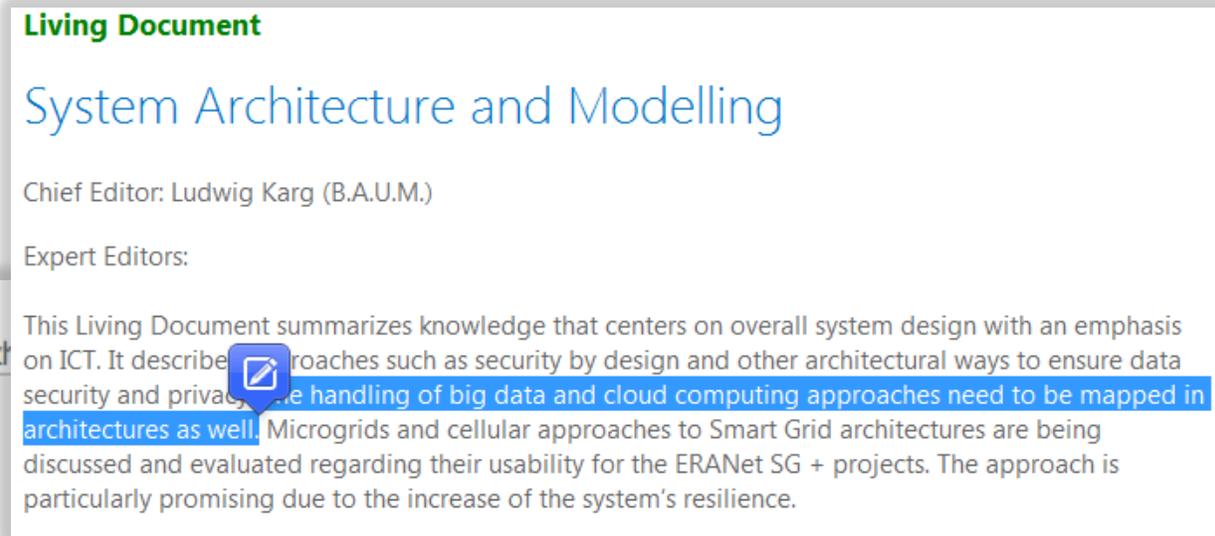
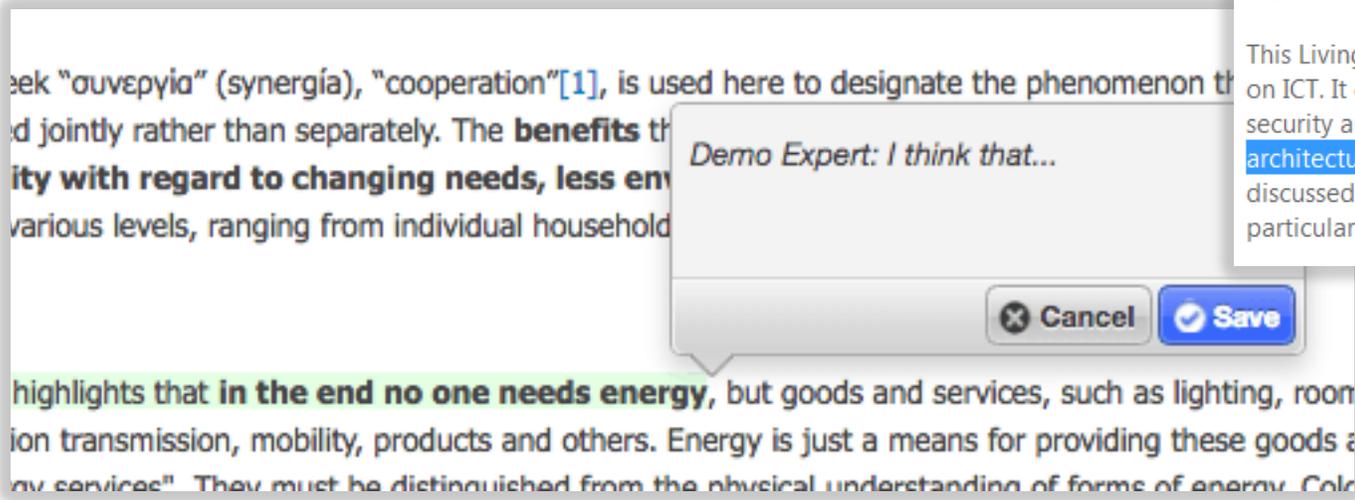
Smart Energy and Smart Grids entail more than just a change of the electricity grid. Considering different energy carriers – heat, gas and electricity – and links between them can lead to better solutions in terms of technology and economy, and better serve those needs of people for whose provision energy is needed. Storage usually comprises conversion between different forms of energy and is often involved when linking different energy carriers. The legal and regulatory framework and the way how market interaction happens influences strongly which solutions can be realized and which are superior and which are not. These issues are touched here, too.

This Living Document deals with the following questions (please click to find the answers that represent the current state of knowledge):

1. What is it meant by “cross energy carrier synergies” and what are characteristics and main advantages of respective approaches? (Which are the different energy carriers and their present applications?)
2. What are best practices in cross energy carrier synergies at European level and under which conditions have they been implemented?
3. What are the needs and potentials for storage in energy systems? <<<
4. What is the merit order of storage technologies when compared to alternative solutions (e. g. grid refurbishment including high voltage DC lines)?
5. What are the characteristics and potentials of various storage technologies? (batteries, solid material, flying wheels, methane and hydrogen, etc.)
6. Which are the most promising technologies for the implementation of hybrid networks?
7. What are regulatory or legal limitations to cross energy systems and how can they be overcome?
8. Which are the main barriers limiting market uptake of linking energy carriers and how could they be overcome?
9. How can we assure that marketable storage solutions do not infringe grid stability but contribute to increased performance of the entire energy system?
10. Which is the potential role of municipal infrastructures for cross energy carrier synergies?

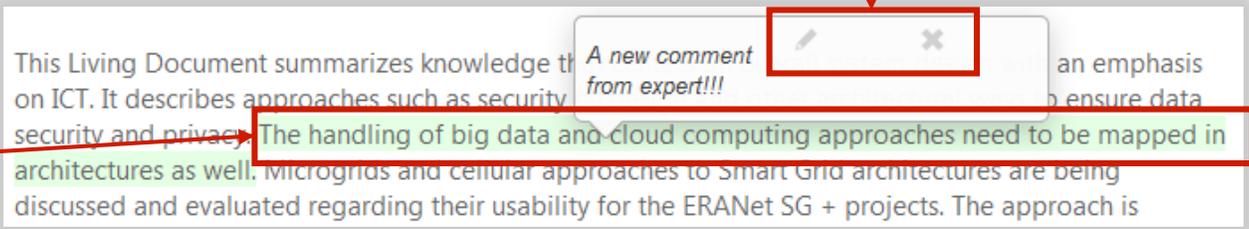
Commenting on Living documents

- Living Documents can be commented by any platform user
 - Select a text
 - Press pencil button
 - Type a comment starting with your name
 - Save the comment



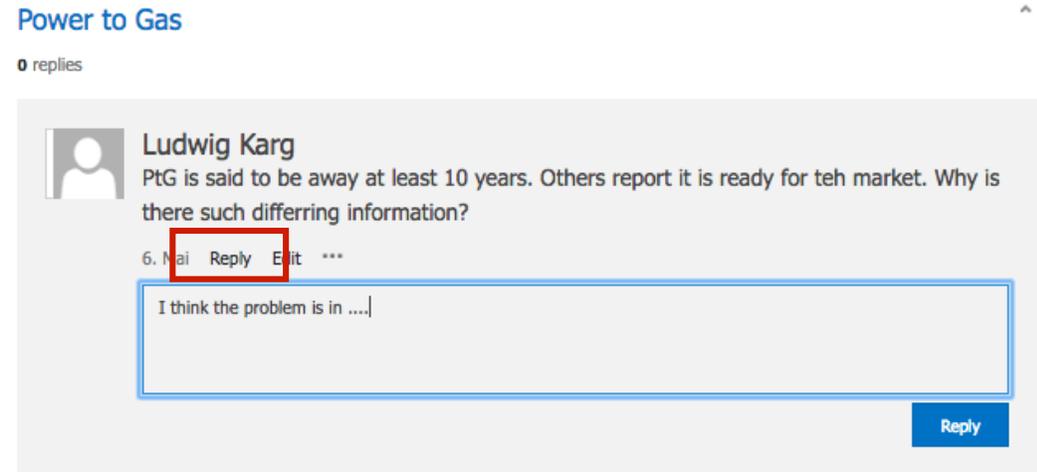
Edit and delete buttons will appear to comment author

The text you commented will be highlighted and comment will appear for all users when they move a mouse over it

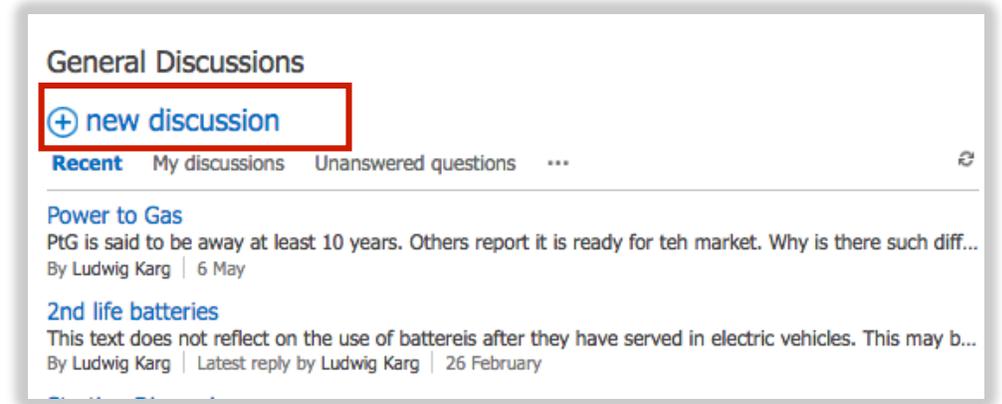


Participating in discussions

- Expert Users can participate in discussions on topics of Living documents
 - On the right side of the Chapter you find the opened discussions
- To reply to any discussion,
 - Press the title to open the discussion area
 - Click “Reply” and type your text.
 - Click “Reply”.
 - Your reply appears under the discussion you replied to.



- To open a new discussion,
 - Click “new discussion” and type the Subject and Body text.
 - Save the discussion.
 - The new discussion appears in the list of discussions



Become a member of Working Groups

Working Groups are intended as a powerful discussion forum. They build up the mutual knowledge and collaboration between projects, enable a thorough discussion of the main lessons learnt by the projects, and feed the community with state-of-the art information. The Working Groups are composed by two groups of participants:

Core participants are the experts from the project community interested in the specific topic

Additional participants are experts of other interested parties, willing to contribute to the specific topic either through sharing of best practices or through the participation to the discussion.

Working Groups have special events during the year and they participate the discussion and producing the mutual knowledge in Expera.

- Please contact the **Working Group** Leader or [knowledge-community\[at\]eranet-smartgridsplus.eu](mailto:knowledge-community@eranet-smartgridsplus.eu) to get access to a certain **Working Group**

Information on Working Group Events

- **Working Group** events are special events for the members.
- You can find information e.g. agendas and registration details on a specific event page under each of the **Working Groups**

Working Group
System Architecture and I

Leader of the group: Ludwig Karg (B.A.U.M.)
Co-Chair from ERA-Net SG+ Initiative: tbd

Speaking a common language and having comparable and other architectural ways to ensure data security discussed and evaluated regarding their usability for European M /490 process and the Smart Grid Architecture

Working Group Meetings
meeting #1, Budapest, December 3&4, 2015

Title	Working group meeting: System architecture
Start Date	03.12.2015 11:00
End Date	04.12.2015 13:00
Content	The first workshop for the Working Group System Architecture will tackle the following topics: <ul style="list-style-type: none">• state of the art models for smart grids ICT (M/490, SGAM etc.)• trends in overall architectures (e. g. centralized versus decentral control and data management)• software platforms for horizontal services (e. g. results from EU Future Internet PPP). Introductory presentation: ERA-Net SG+ WG System Architecture 151203 Intro
Publication Date	11.11.2015 17:00
Agenda	ERA-Net Smart Grids Plus WG SA Budapest Agenda

Access Working Group documents

- There is a specific Document Repository for each of the **Working Groups** which is accessible for the Members of a Group only

Working Group

System Architecture and Implementation Modelling

Leader of the group: Ludwig Karg (B.A.U.M.)
Co-Chair from ERA-Net SG+ Initiative: tbd

Speaking a common language and having comparable approaches to Smart Grid architectures is important for the cross-evaluation and other architectural ways to ensure data security and privacy. The handling of big data and cloud computing approaches need to be discussed and evaluated regarding their usability for the ERA-Net SG + and other national and transnational projects. This applies to the European M /490 process and the Smart Grid Architecture Model (SGAM).

Working Group Meetings

meeting #1, Budapest, December 3&4, 2015

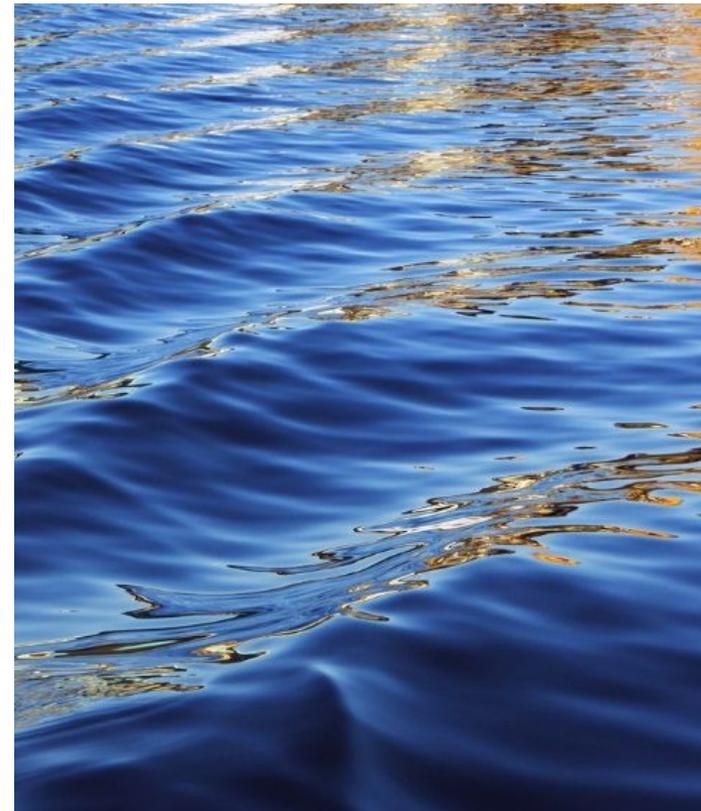
Document Repository

[+](#) new document or drag files here

✓	📄	Name	Modified	Modified By	Document type
		ERA_System_Architecture_Horizontal_Platforms_BAUM_03-12-15	... 2. März	<input type="checkbox"/> Helena Geissler	Presentation
		ERA-Net Smart Grids Plus_WG SA_Budapest_Agenda	... 2. März	<input type="checkbox"/> Helena Geissler	Agenda
		ERA-Net_SG+_WG_System_Architecture_151203_Intro	... 8. Dezember, 2015	<input type="checkbox"/> Ludwig Karg	Presentation

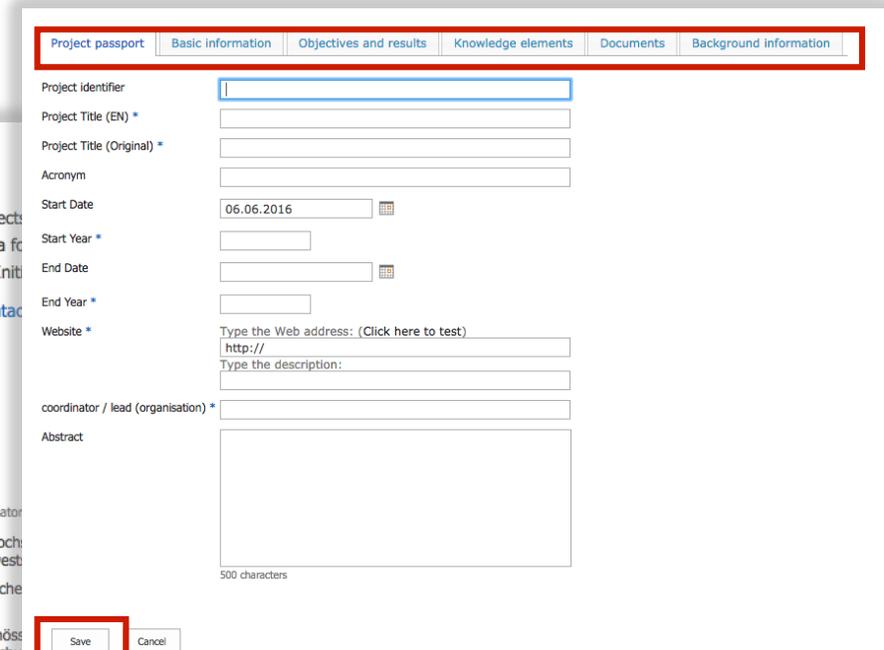
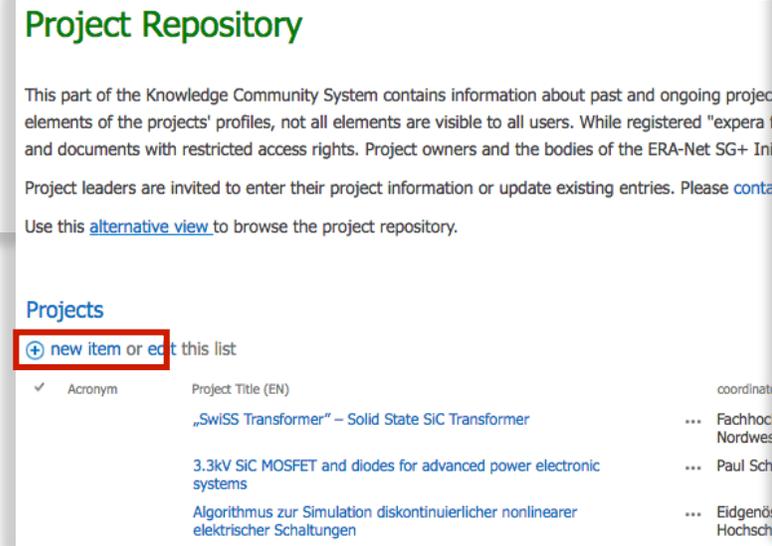
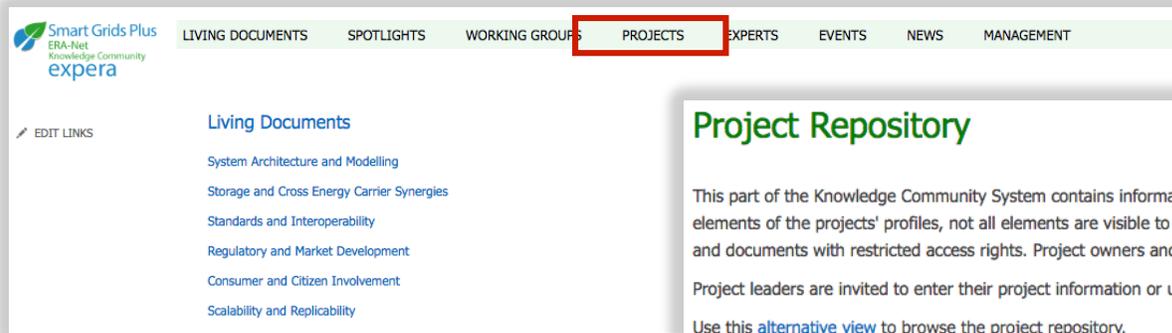


Share your projects



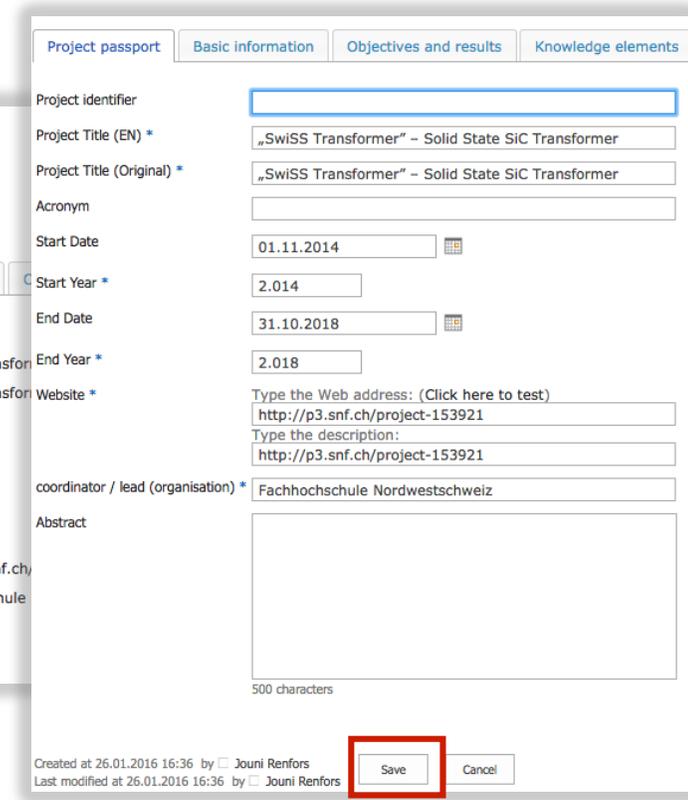
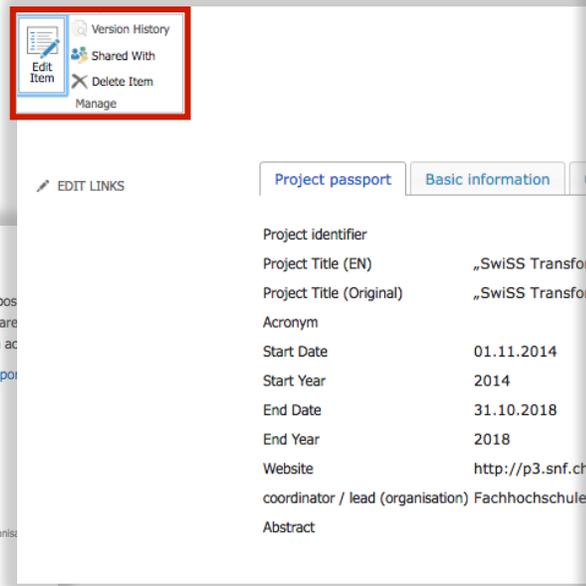
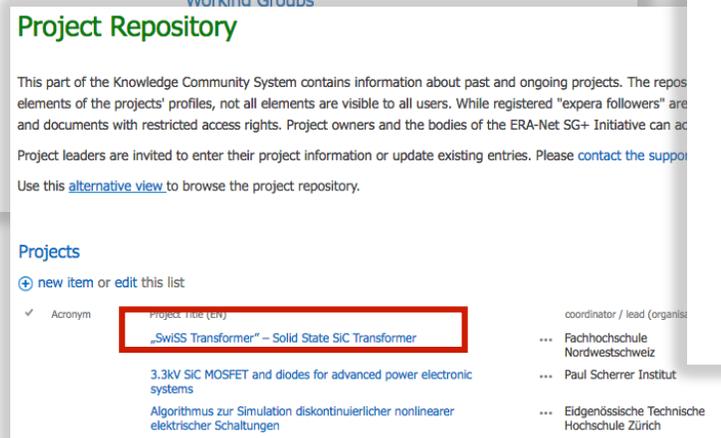
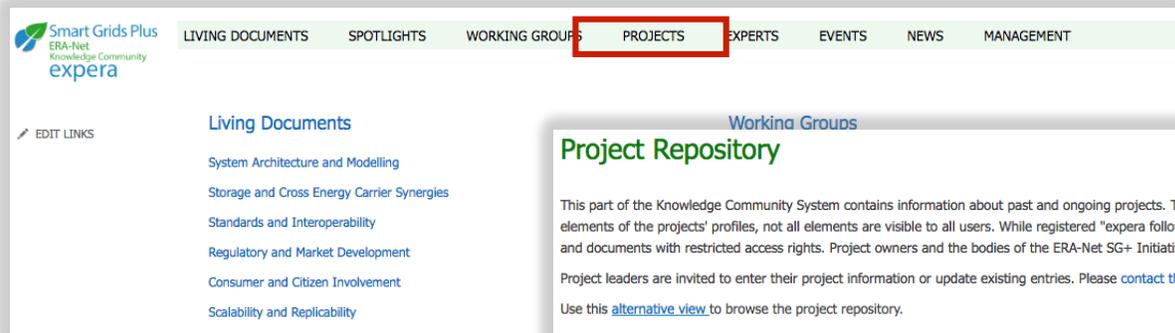
Enter your project

- As an Expert User, you can add your project information to the Expera to let others know your efforts
 - Click “Projects” on the landing page to see the list of all added projektcts
 - Click “New item” to add your information
 - Add all the fields and Subpages and click “Save”



Edit your project profile

- You can edit the project information added to the Project Repository
 - Open the Projects page
 - Click your own project
 - Click "Edit" on the left side
 - Modify texts you prefer
 - Press "Save" in the end.



Load up document to your project profiles

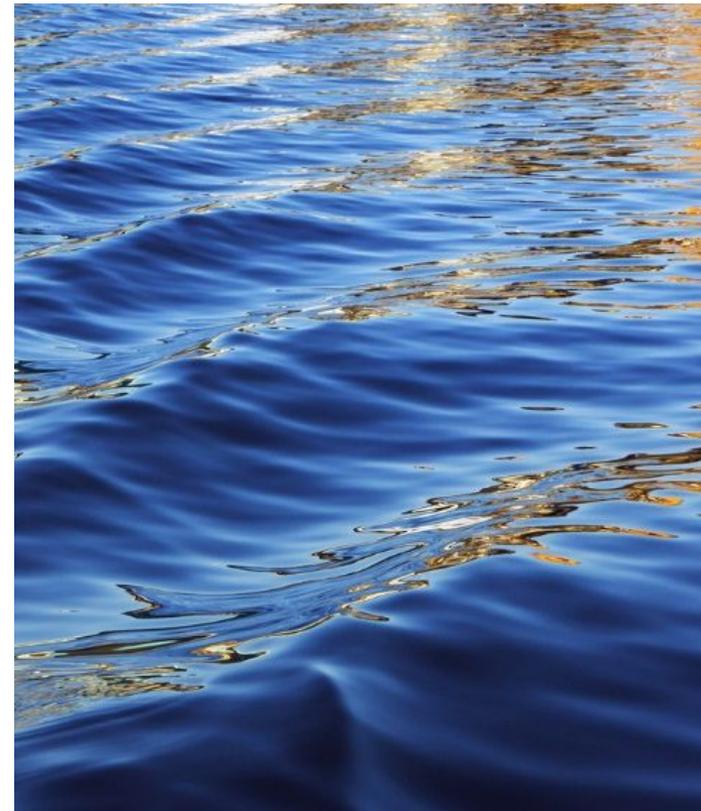
- You can load documents to your project profile
 - Open the pages of your project under the Project repository
 - On the Document sub page, click "Add document"
 - Choose the file you want to upload and click "OK"
 - Add Name and Title
 - Press "Save"

The image illustrates the process of adding a document to a project profile through three sequential screenshots:

- Top-left screenshot:** Shows the 'Documents' tab of a project profile. The 'Add document' button is highlighted with a red box.
- Bottom-center screenshot:** Shows the 'Add a document' modal dialog. The 'Choose File' button is highlighted with a blue box, and the 'Overwrite existing files' checkbox is checked.
- Top-right screenshot:** Shows the document upload form. The 'Name' field contains 'DemoExperts' file .png' and the 'Title' field contains 'Abstract of a project "Swiss Transformer"', both highlighted with red boxes. A 'Save' button is highlighted with a red box at the bottom right.



News and Network



Spotlights

These newsletter-type documents will keep experts updated on the ongoing activities and intermediate results of ERA-Net Smart Grids Plus projects. In addition, they inform in a condensed manner about specific new knowledge. **Spotlights** concentrate on specific topics with high relevance for project participants and practitioners.

- You can access **Spotlights** from the landing page

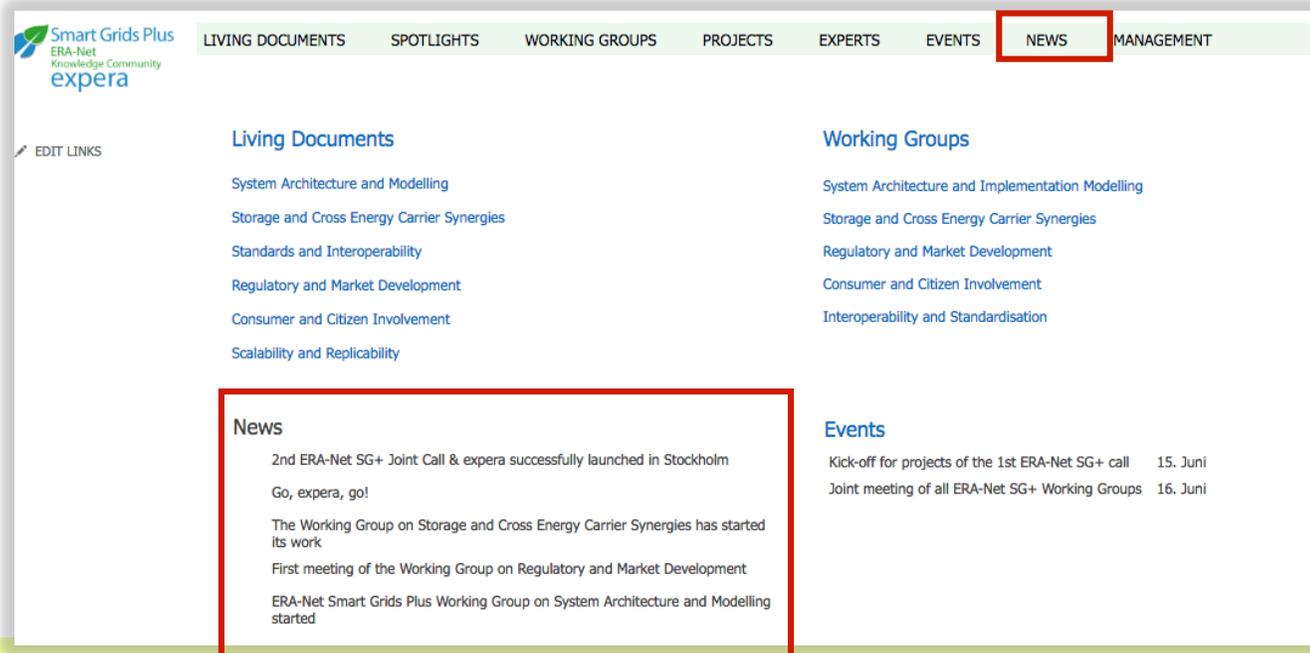
The screenshot shows the website's navigation bar with the following items: LIVING DOCUMENTS, SPOTLIGHTS (highlighted), WORKING GROUPS, PROJECTS, EXPERTS, EVENTS, NEWS, and MANAGEMENT. Below the navigation bar, there are two columns of links:

- Living Documents**
 - System Architecture and Modelling
 - Storage and Cross Energy Carrier Synergies
- Working Groups**
 - System Architecture and Implementation Modelling
 - Storage and Cross Energy Carrier Synergies

News

Latest **News** will highlight the important topics in the Knowledge Community as well as interesting events.

- Most recent News can be found on the landing page.
- The entire list of **News** can be found under **News** page



Subscribe to the expera mailing list

- To subscribe to the expera mailing list, send an email to knowledge-community@eranet-smartgridsplus.eu

Events of the Knowledge Community

All the important **Events** of the Knowledge Community can be found in Expera

- Click “Events” on the landing page
- Click a specific Event to access the information on the details of the event.
- List of events can be found by clicking “Events Calender”

The screenshot displays the Expera website interface. At the top, a navigation bar includes links for LIVING DOCUMENTS, SPOTLIGHTS, WORKING GROUPS, PROJECTS, EXPERTS, **EVENTS** (highlighted with a red box), NEWS, and MANAGEMENT. The left sidebar features the Smart Grids Plus ERA-Net Knowledge Community logo and an EDIT LINKS button. The main content area shows an Events Calendar for June 2016, with a red box highlighting the event on June 15-16: "Kick-off for projects of the 1st ERA-Net SG+ call" and "Joint meeting of all ERA-Net SG+ Working Groups". A detailed event view is overlaid on the right, showing the event title, content, dates (16. Juni to 17. Juni), and a preliminary agenda for Day 1 on 15.06.2016.

When?	What?
12:00	Registration
12:30	Introduction and overview to ERA-Net

Expera: Contacts

- Portal managers

Support Team of ERA-Net Smart Grids Plus:

c/o B.A.U.M. Consult GmbH München/Berlin

responsible: Ludwig Karg

contact: Helena Geißler

E-mail: [knowledge-community\[at\]eranet-smartgridsplus.eu](mailto:knowledge-community@eranet-smartgridsplus.eu)

- Technical support

Address all technical questions to :

E-mail: [support\[at\]inno-w.com](mailto:support@inno-w.com)

Signing out

