



**TECHNOLOGY FACT SHEET**  
**Xarxa R+D+I Energy for Society**

Identification Number  
(to be filled by XRE4S)

TECHNOLOGY Name

TECHNOLOGY Acronym

University/Research Center

Group Name

Researcher contact. Name

email

Group Leader Approval. Name

**Description of the Technology**

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Technology abstract & Image/Scheme

*Description of technology, picture &/or scheme (100-200 words max)*

**Energy Area**

**Energy Efficiency**

- a. Energy efficiency in buildings
- b. Energy efficiency in industry
- c. District heating and cooling

**Smart Grids**

- a. Modernization of the electric grid
- b. Energy storage and distributed energy generation
- c. Flexible, reliable and secure electric systems

**Low Carbon Technologies**

- a. New generation technologies
- b. Increase of renewable energy penetration
- c. Heat and cold technologies
- d. New fuels

Others Specify:

For information only  
Not valid for submission

**What problem does it solve?**

*Explain the challenge/problems your technology is trying to solve or the challenges/needs you aim to address. Include a comment on how big the problem is*

**Description of the main benefits. Main value proposition (quantifiable as much as possible)**

*Describe how your technology is going to fulfill above needs. Indicate the benefits and quantify your value proposition as much as possible (e.g. reduction of costs of XXX€ or increase of operating efficiency of YY %). In case your technology may be part of a bigger system, how does it improve the overall system?*

**IP Rights**

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- Patent Status
- Granted
  - Patent filed
  - To be filed
  - No patent foreseen
  - N/A

If there is a Patent or patent application... (complete for the main patent)

Title	<input type="text"/>	Issue Date <small>(or application date if not issued yet)</small>	<input type="text"/>
Number	<input type="text"/>	Ownership or other rights <small>(RC owner, or co-owned, or obligations to others: describe)</small>	<input type="text"/>
Country	<input type="text"/>	Link to Patent or patent application:	<input type="text"/>

In case of more patents, please enter the number of additional related patents or applications in the following text box:

For information only  
Not valid for submission

If there is NO patent....

Filling expected date if applicable

Date of any public disclosure  
(e.g. publication or conference presentation)

Link to publication or copy of  
presentation

In case of Software applications, please define the protection measures taken so far.

Can you explain your IP protection strategy (If there is a patent explain the exploitation, if there is no patent the protection strategy)

## Market/Applications

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Application for the technology (specific energy applications, please list other applications if any):

*Describe the main applications of the Technology. In what industry, product, process etc will your technology be used? What is the size of the market(s)? Please quantify as much as possible*

Potential interested customers

*Indicate who might be interested in buying your technology. There may be different types of customers if there are different applications. Please name some potential customers and indicate why you think they might be interested.*

Competitive Landscape. What is the most similar product in the market?

*How are people solving this problem now? Is there any similar technology you are aware of? If so, how developed is it? Who has/is developing such technology?*

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**Competitive Advantage. What advantage /disadvantages compared to current alternatives?**

*Explain how your technology performs or will perform compared to existing /competitive ones. Why will your technology beat existing/future competitive technologies?*

**IMPACT**

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Please link the IMPACT of the implementation of your solutions to the Sustainable development Goals in terms of contribution.

- |  |  |
|--|--|
| <input type="checkbox"/> GOAL 1: No Poverty                            | <input type="checkbox"/> GOAL 10: Reduced Inequality                     |
| <input type="checkbox"/> GOAL 2: Zero Hunger                           | <input type="checkbox"/> GOAL 11: Sustainable Cities and Communities     |
| <input type="checkbox"/> GOAL 3: Good Health and Well-being            | <input type="checkbox"/> GOAL 12: Responsible Consumption and Production |
| <input type="checkbox"/> GOAL 4: Quality Education                     | <input type="checkbox"/> GOAL 13: Climate Action                         |
| <input type="checkbox"/> GOAL 5: Gender Equality                       | <input type="checkbox"/> GOAL 14: Life Below Water                       |
| <input type="checkbox"/> GOAL 6: Clean Water and Sanitation            | <input type="checkbox"/> GOAL 15: Life on Land                           |
| <input type="checkbox"/> GOAL 7: Affordable and Clean Energy           | <input type="checkbox"/> GOAL 16: Peace and Justice Strong Institutions  |
| <input type="checkbox"/> GOAL 8: Decent Work and Economic Growth       | <input type="checkbox"/> GOAL 17: Partnerships to achieve the Goal       |
| <input type="checkbox"/> GOAL 9: Industry, Innovation & Infrastructure |  |

Additional impact in the energy transition (reduce CO2 emissions, decrease energy costs, etc.)

- Reduce CO2 emissions
- Decrease of Energy Costs
- Securing Energy System

**Other IMPACT foreseen**

*Briefly explain the IMPACT contribution to the Environment, Economy, Society (gender, diversity, reduction of inequalities)*

## Development Roadmap

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Current TRL  
Number

TRL

Time to next TRL

Expected time to market

### Part of larger national/EU project?

*Is your technology part of a consortium project with other development partners? If so, please describe here briefly the duration, funding, consortium composition...*

### Further development

*Indicate what you need in the short term (next steps in the coming 12-18 months) to reach the next TRL as well as the further needs to bring the technology to the market (e.g. Tests in real conditions, scale up the proof of concept, change in legislation, certification, etc...)*

### Desired partners or collaborators (investors, industrial partners, clients, pilot sites)

*Indicate if any partner may be needed to successfully bring the technology to the market (e.g. type or specific company, investor, accelerator, etc...)*

### Financial Needs

*(Indicate approximately)*

Current funding available to continue developing the project

*(euros over time period)*

Estimation of funding needed to launch to the market

*(euros over time period)*