

Project Summary

Market Access for Smaller Size Intelligent Electricity Generation

MASSIG

Duration: October 2007 – July 2010 (33 Months)

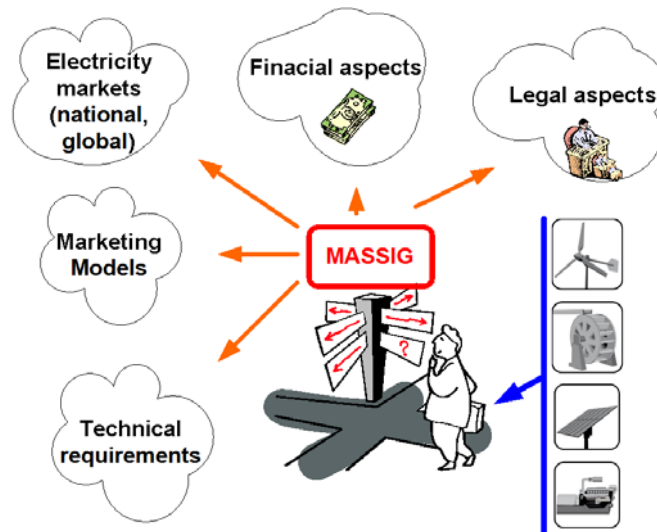
Grant Agreement No.: EIE/07/164/SI2.467618

Project Co-ordinator: Fraunhofer Institute for Solar Energy Systems ISE (Freiburg, Germany)

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The core objective of the project “Market Access for Smaller Size Intelligent Electricity Generation – MASSIG” is to give tools and guidance for investors and owners of RES and DG for innovative marketing options beyond simple subsidies or grants.



- **Focus: small and medium size grid connected generators**
- **Consideration of technical and non-technical pre-conditions for market products**
- **Attention to national regulatory regimes**

Results:

- ⇒ **Marketing concepts**
- ⇒ **Economic Assessment**
- ⇒ **“How To?” - Manuals**

Project Partners:

Fraunhofer Institute for Solar Energy Systems ISE (D)

badenova WÄRMEPLUS GmbH & Co. KG (D)

EMD (DK)

The University of Manchester (UK)

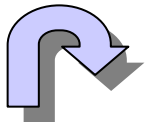
European Renewable Energy Council EREC (BE)

Technical University of Lodz (PL)

Vienna University of Technology, Energy Economics Group EEG (AT)

Background

- DG and RES gradually need to become competitive on the liberalised national and international electricity markets
- Especially investors and owners of small and medium size DG / RES currently rely strongly upon subsidies and neither have competence nor capability for entering “big markets” by themselves (-> competitive disadvantage!)
- Meanwhile there exist a number of ideas and approaches for innovative marketing solution, partly already today being realised for larger DG / RES resources



Exciting challenges:

- How to serve the needs of the “big” electricity markets by “small” DG / RES?
- How to integrate fluctuating generation (wind, PV, ...) in this context?
- How to match with national regulatory regimes?
- How to tailor up solutions being technically viable and economically profitable?
- How to actually put all this in practice?

Objectives and Main Steps

Step 1: Analysis of current situation and identification of most promising marketing options

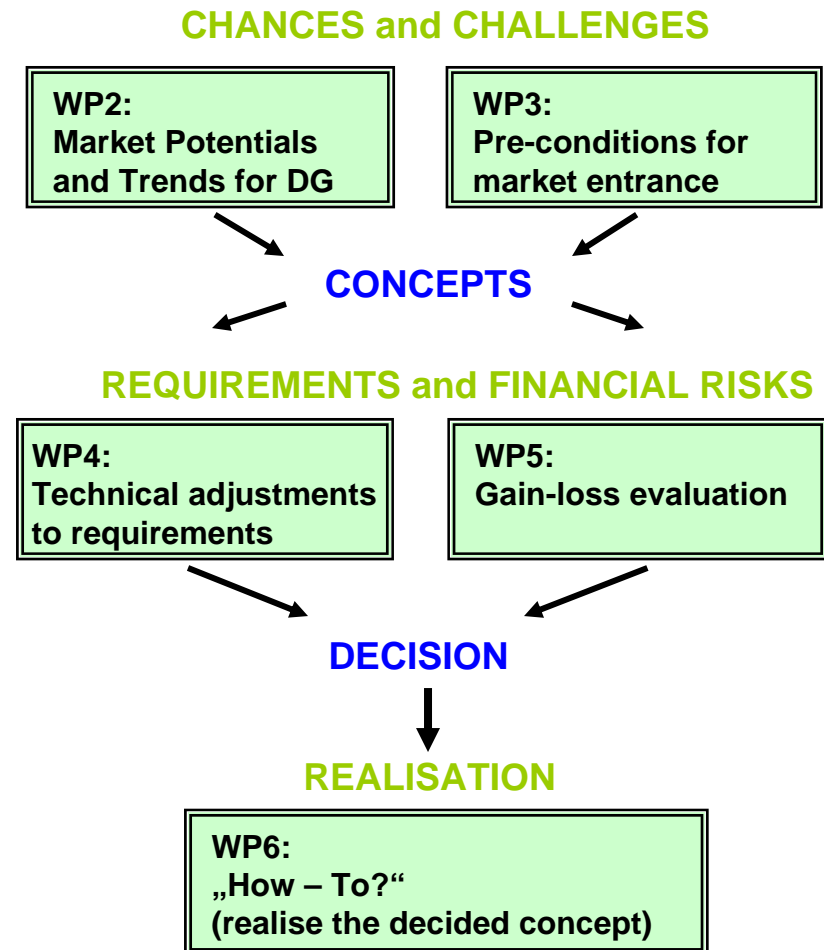
Step 2: Description of technical and legal conditions and barriers for small DG to enter big markets

Step 3: Describe technical approaches to offer promising market products

Step 4: Economic evaluation and comparison of different marketing options

Step 5: Clarification and description of the practical actions to be done, description of relations between market parties

Small and medium size DG / RES → Technical and economical solutions to enter electricity markets



Expected Results

The results of the project MASSIG serve the needs of the different target groups:

**Plant owners of
small and medium
size DG / RES**

- **Alternative and innovative marketing options replacing subsidies and feed-in tariffs**
- **Technical concepts and approaches for market-oriented operation management**

**Investors in small
and medium size
DG / RES
Decision makers**

- **Tools and experience for evaluating the economic viability of alternative marketing approaches**
- **New (economic) incentives to invest deliberately in DG / RES technologies**
- **Present successful showcases**

**Companies offering
services on the
electricity markets**

- **Introduce new field of business for service providers**
- **Describe approaches to combine different technologies to tailor product according to market requirements**

**Utilities and
Distribution System
Operators**

- **Show new approaches of better integrating DG / RES into the overall electricity supply system**
- **Concepts for contribution of DG / RES to grid services via market participation**

Partners & Contact

The MASSIG consortium consists of 7 partners:

Coordinator:

Fraunhofer Institute for Solar Energy Systems ISE (D)

Partners:

Badenova WÄRMEPLUS GmbH & Co. KG (D)
EMD (DK)

The University of Manchester (UK)
European Renewable Energy Council
EREC (BE)

Technical University of Lodz (PL)
Vienna University of Technology, Energy
Economics Group EEG (AT)



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The MASSIG project website provides up-to-date information:

www.iee-massig.eu