

## FINANCIAL PARTICIPATION

Jan Wiesenthal & Steven Salecki

Inportance and options

**29TH AUGUST 2023** 







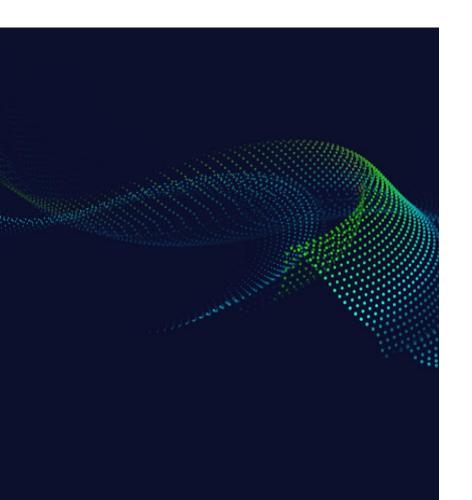












#### **AGENDA**

- 1. Definitions and examples for financing and refinancing (Jan)
- 2. Financial participation: A boost for RE acceptance!? (Steven)
- 3. World Café



## FINANCIAL PARTICIPATION

Jan Wiesenthal

Definitions and examples for financing and refinancing

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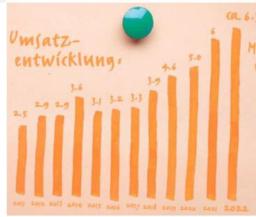
- \_Founded in 1985 by concerned scientists
- \_A leading scientific institute in the field of sustainability research
- \_Objective: to devise concepts and strategies for a transition towards a more sustainable future, with special focus on economy
- \_Private, independent and non-for-profit
- \_100 % project-related third-party funds, no institutional funding
- \_About 600 completed research projects

# INSTITUTE FOR ECOLOGICAL ECONOMY RESEARCH (IÖW)



**Employees IÖW** 

#### Revenue





# A leading scientific institute in the field of sustainability research

- Digital transformation
- Sustainable Corporate Governance –
- Environmental Policy and Governance
- Climate and Energy
- Products and Consumption
- Post-growth















- Water and land management
  - Innovation and technologies
- Evaluation and assessment
- Participation and communication
- Community value creation and employment through renewable energie



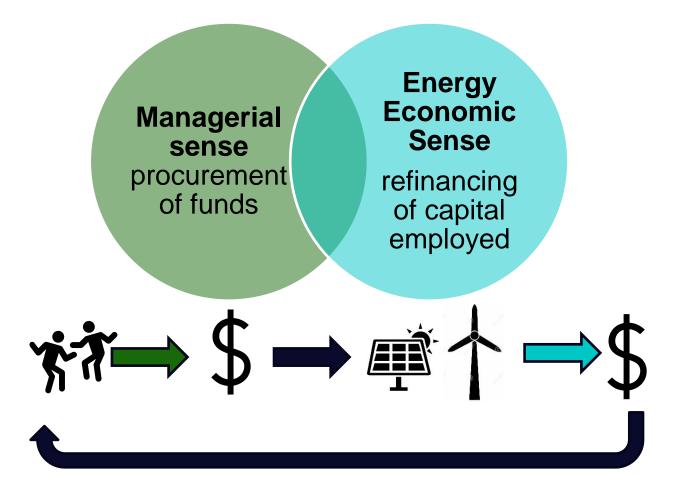








#### **DEFINITION**





## FINANCING IN A MANAGERIAL SENSE

- \_Legal framework: financial sector regulations
- \_Actors: public and private financiers possible
- \_Form of capital: equity, mezzanine or debt capital

#### equity

- shareholders in the company
- ownership with according decisionmaking, voting rights and rights to information

#### mezzanine

- Not clearly equity or debt
- reference shares, profit participation certificates, convertible loans and subordinated loans

#### debt

- Often Fixed interest rate
- No decision-making rights
- Control rights: typically limited to information
- e.g. bank loans, promissory note loans and crowdlending



# FINANCING IN A ENERGY RELATED SENSE

\_Legal framework: Energy sector regulations

#### Public instruments

- Energy market design (e.g. capacity market, EOM, net metering, FIT)
- Environmental policies (e.g. ETS, CO2 tax, bans quota)

#### Private instruments

Contracts (e.g. PPA, renewable energy certificates)



#### \_Net metering:

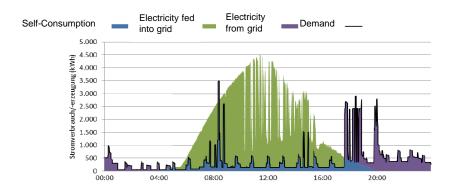
\_Consumption: 3000 KWh

Production: 2000 KWh

\_Buys from the grid: 1000 KWh

⇒Household saves buying 2000 KWh from the grid





# PUBLIC INSTRUMENTS – ENERGY MARKET DESIGN

Feed-in tariff:

\_Consumption: 3000 KWh

\_Production: 2000 KWh

\_Self Consumption: 600 KWh

\_Fed into grid: 1400 KWh

\_Buys from the grid: 2.400 KWh

⇒ Household earns FIT \* 1400 KWh fed into grid

⇒ Household saves buying 600 KWh from the grid



# PUBLIC INSTRUMENTS - ENVIRONMENTAL POLICIES

ETS & CO2 tax: Polluter pays principal

#### **\_Emission Trading System (ETS):**

- \_Limited number of certificates allowing pollution
- \_Advantage high environmental accuracy

#### €/T CO2 in EU ETS



CO<sub>2</sub> Tax

- \_Levy on produced CO2
- \_Advantage: Lower transaction costs for implementation, control and sanctioning

#### **Conclusion**

\_increases the costs for carbon-intensive forms of electricity generation and heating and makes renewable energy projects more competitive



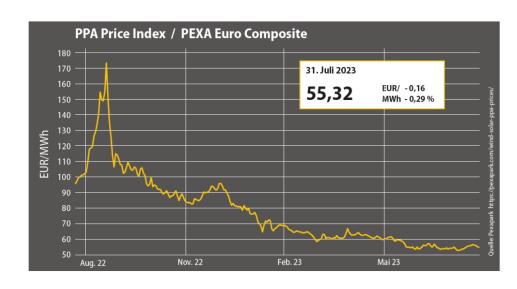
# PRIVATE INSTRUMENTS CONTRACTS

#### \_PPA:

\_Negotiating prices of producer's future production prior to construction

### Renewable energy certificates:

\_Trading certain
characteristics of the
electricity generated
\_Customer can meet
quotas or offer customers
certain characteristics of
the electricity



ContextCrew NEUE ENERGIE



## FINANCIAL PARTICIPATION



Jan Wiesenthal

Institute for Ecological Economy Research (IÖW)

**Dr. Steven Salecki**Institute for Ecological Economy Research (IÖW)

steuerboard-energie.org

**PROJECTPARTNERS** 







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## FINANCIAL PARTICIPATION

Jan Wiesenthal, Dr. Steven Salecki

World Café

**29TH AUGUST 2023** 













and Research



- \_Groups of 4-6 people
- \_Each group discussing one specific question
- \_Groups take notes/visualize what they discuss
- \_After approx. 10 minutes groups rotate and continue the discussion based on results of previous group

(Brown, J. & David, I. (2007): Das World Café - Kreative Zukunftsgestaltung in Organisationen und Gesellschaft. Heidelberg: Carl-Auer.

# **WORLD CAFÉ**



#### **QUESTIONS**

- 1. What are the challenges of financial participation?
- 2. How can citizens benefit from financial participation and acceptance be created/strengthened?
- 3. How to achieve financial participation and which stakeholders should be involved?
- 4. For what should value added be used for?