

Panel session TASK-17: DG, DR and storage Flexibility: Dream or Reality

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IEA (located in Paris) manages programs

- Countries and organisations take part in programs
- Programs initiate tasks
 - DSM program: 25 tasks (partially closed)
 - Coverage of all perspectives of DSM (user/customer, regulatory, technical)
 - Not research project but assessment of projects and developments
- Average duration per phase 2 years
- Task 17
 - Now in third 2-yearly phase
 - Operated by AIT, Austria and TNO, the Netherlands
 - 7 countries and 1 international organisation provide country experts



Operating mode

- Bi-annual expert meetings for sharing experiences
- Panel sessions and events
- Deliverables of subtasks
- DSM university via Webinars
- Interaction with other tasks (business models, usability studies)
- Subtasks
 - Subtask 10: Role, and potentials of flexible prosumers (households, SMEs, buildings)
 - Subtask 11: New roles for actors
 - Subtask 12: Sharing experiences and finding best/worst practices
 - Subtask 13: Conclusions and recommendations

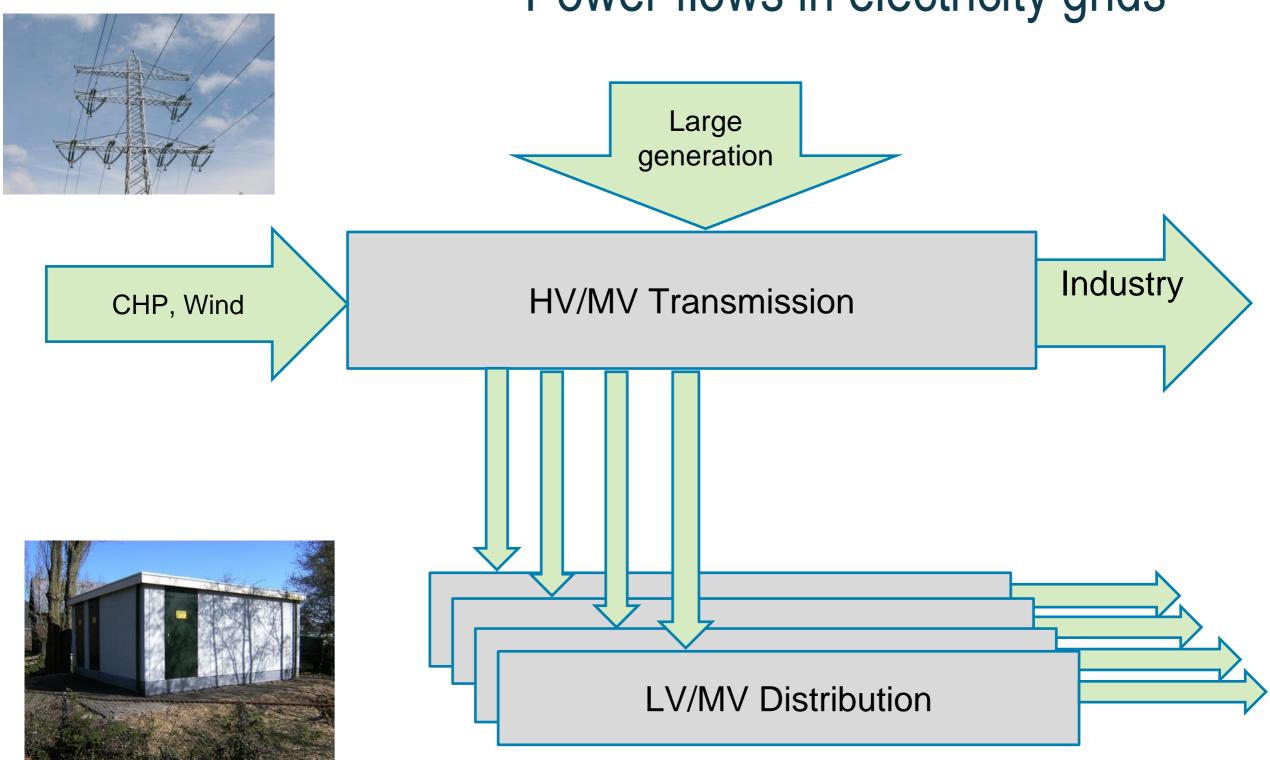


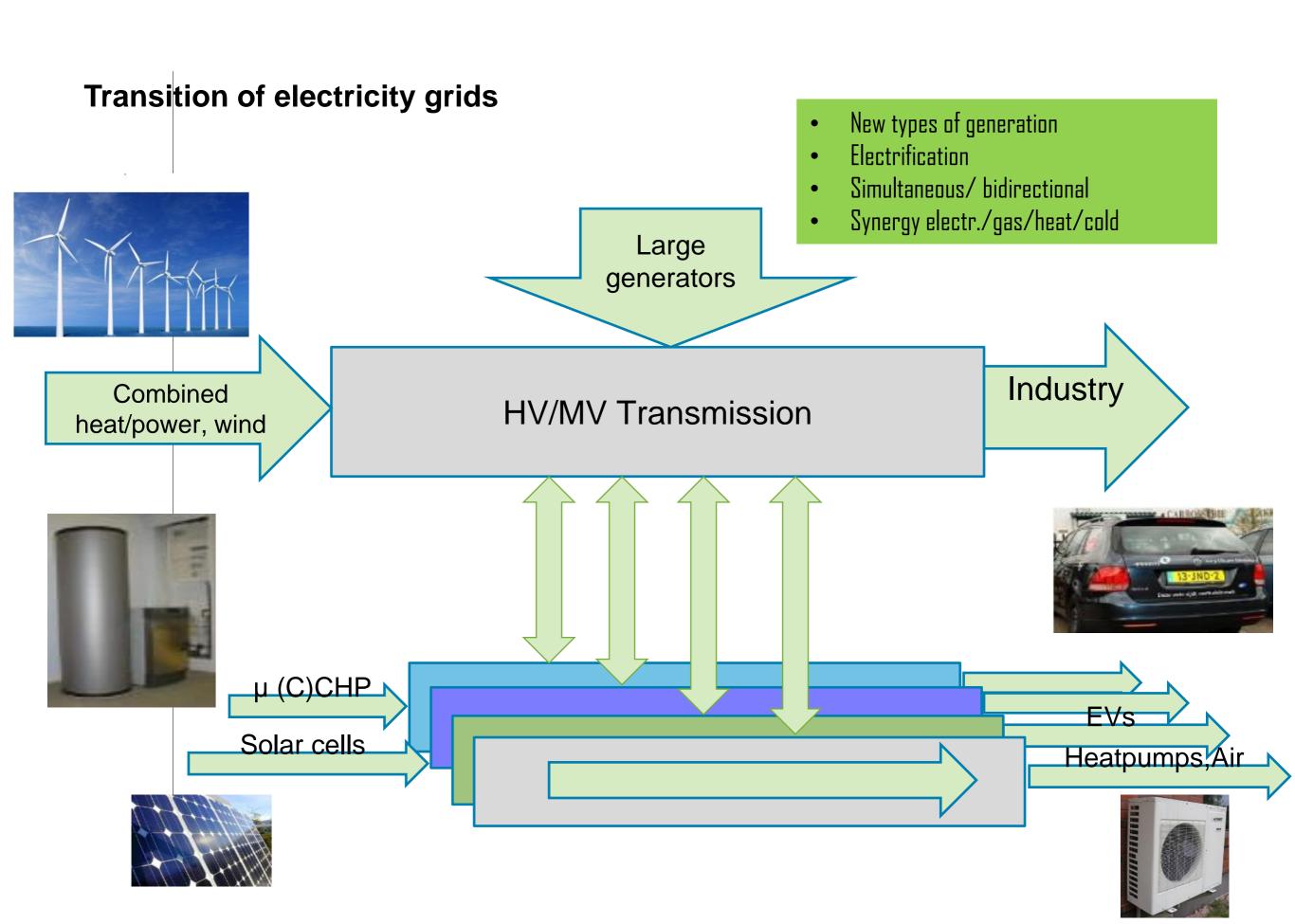
Flexibility (Demand response <> Generation uncertainty)

- Electricity grids
 - Decarbonisation/electrification/substitution of carrier
 - Limits of embedding more distributed and dispersed generation reached (local: Voltage/ global: frequency)
 - Smart grids and (hybrid) energy storage are key to solutions



Power flows in electricity grids





Flexibility (Demand response <> Generation uncertainty)

- How to enable flexibility in electricity production and consumption through ICT and the impact of it on the stakeholders:
 - What are the DER flexibility potentials?
 - How do we manage these (VPPs)?
 - What are the roles of actors
 - What is the effect on operation of grids?
 - What are the benefits?



Епјау

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