



Research centre within wind power

Welcome!



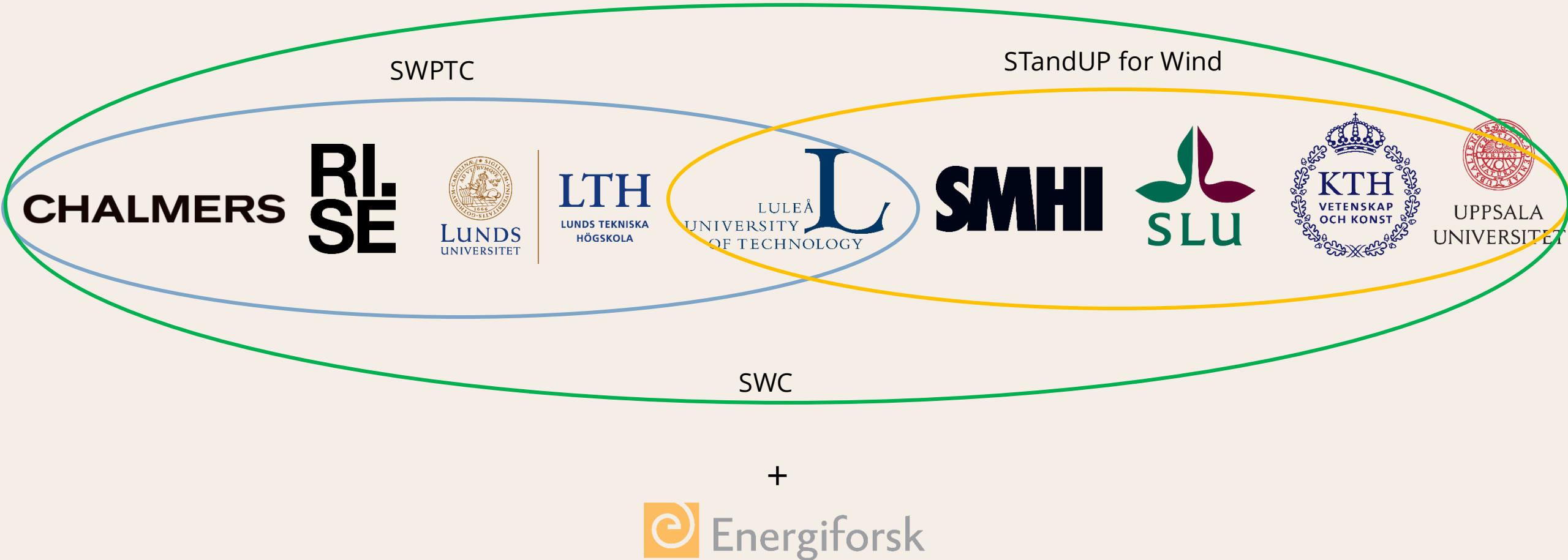
Trends in wind power deployment in Europe and Swedish municipalities

The webinar is co-organised by SWC and the research program Mistra Electrification.

Welcome

- Welcome to a Swedish Wind Centre webinar!
- SWC will arrange 4-6 webinars each year.
Some will be open webinars and some will only be for members.
- Information regarding all webinars will be posted on our website: www.swedishwindcentre.se
- Or sign-up on our send list to receive invitations directly, contact annie.nystrom@geo.uu.se .
- Presentations of the webinar will be available at the website after the webinar.
- All participants have been muted.
- If you have a question, please raise your hand or write it in the chat.

Swedish Wind Centre



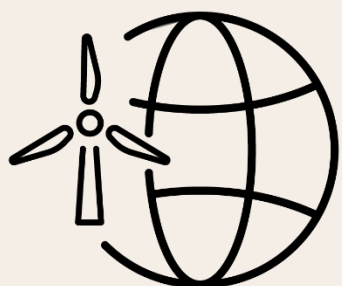
Swedish Wind Centre

- Stage 1 2023-2027
 - Led by Chalmers, Uppsala University/KTH and Energiforsk
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- Facilitate research projects within wind power
 - Share knowledge from previous and ongoing research projects

Participating companies



Research themes



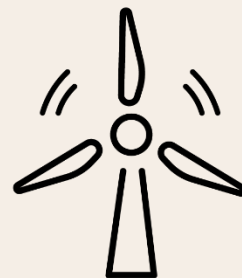
Planning of wind power

- Policy measures
- Planning of wind power
- Social acceptance
- Environmental impact
- Human impact



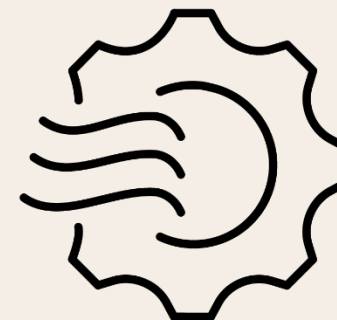
Siting

- Site specific wind conditions
- Wind prognosis
- Climate change
- Wind farm effects
- Forrest
- Offshore
- Cold climate



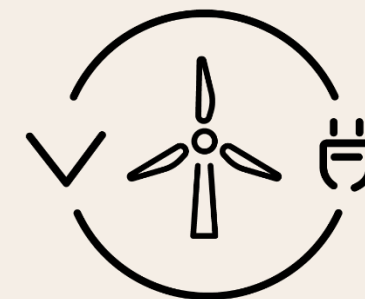
Turbine technology

- New material for turbine parts
- Reuse and recycle turbines
- Adapt turbines and operation for Nordic condition



Operation & maintenance

- Lifetime extensions for turbines and parts
- Operation in Nordic conditions
- Preventive and opportunistic maintenance



Electrical system integration

- Ancillary services
- Utilize existing grids more efficiently
- Efficient grid connections for offshore wind
- Micro grids
- Power to X

Interested in Swedish Wind Centre?

If you are interested in joining the Swedish Wind Centre or want to know more about it, please contact:

- Sara Fogelström, sara.fogelstrom@chalmers.se
- Stefan Ivanell, stefan.ivanell@geo.uu.se
- Åsa Elmqvist, asa.elmqvist@energiforsk.se

Welcome!

Trends in wind power deployment in Europe and Swedish municipalities

- **Marta Vetier**, Chalmers University of Technology – Pulsating growth patterns of onshore wind power in Sweden and Europe and its implications for future deployment
- **Yodefia Rahmad**, Chalmers University of Technology – Trends in wind technology and distribution of installation across Swedish municipalities
- **Vincent Wretling**, Vattenfall - Comments on the presentations above.

