

Community Engagement

Experiences from Denmark

Mio Schrøder
PlanEnergi,
Århus

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Private consultancy for projects within the renewable energy sector / 30 architects, landscape planners, engineers, biologists placed in 3 offices / involved in more than 60 wind turbine projects through out Denmark during the last 8 years

Community Engagement

Experiences from Denmark

1. Wind energy in Denmark
2. Community Engagement policies / practical measures in place today
3. Nørhede Hjortmose, showcase for local wider societal acceptance
4. Next practice

1. Wind energy in Denmark



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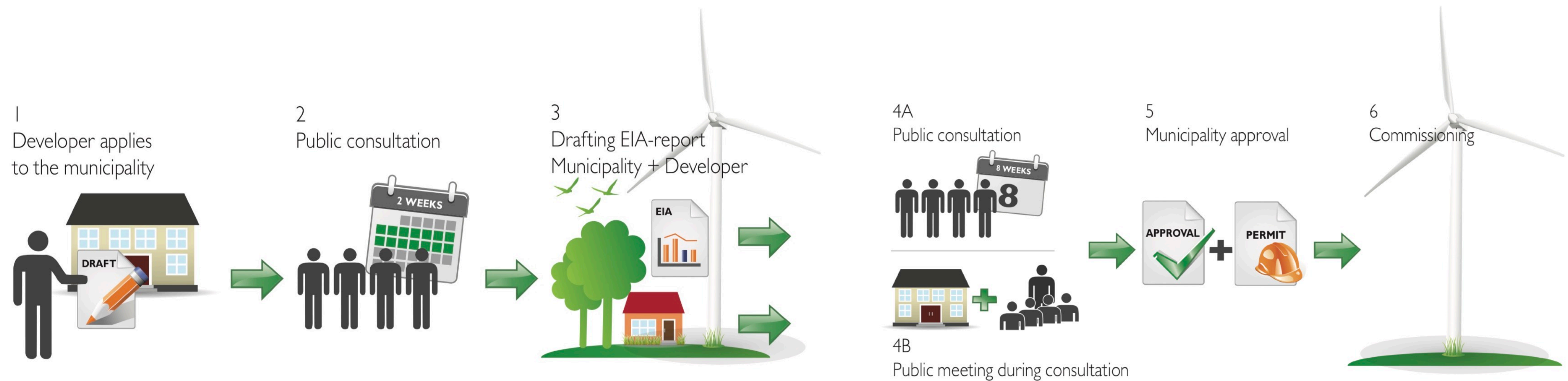


1. Wind energy in Denmark

- Denmark was a pioneer in developing wind power and has installed wind turbines onshore since the 1970's.
- Today, more than 40 % of Denmark's energy supply comes from wind power
- In 2050, the plan is for Denmark to be 100 % free of fossil fuel and wind energy will make up a very large part of the energy mix by then
- Export of wind turbines and technology for wind energy is an essential contribution to the Danish economy.

2. Policies and practical measures in place today

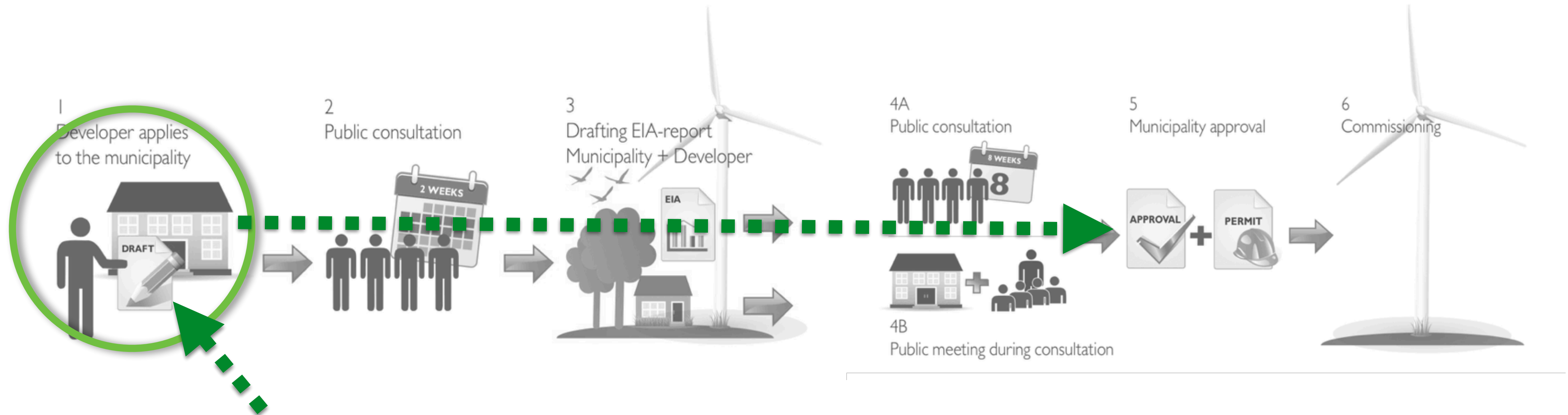
Process line for concrete project proposal



In Denmark the municipalities are in charge of the planning process of onshore wind turbines, rules and regulations include noise, setback, visual impact, flicker. Zoning and pre-project stage include public consultations and hearings

2. Policies and practical measures in place today

Four schemes promoting the local acceptance of and involvement (2009-2018)

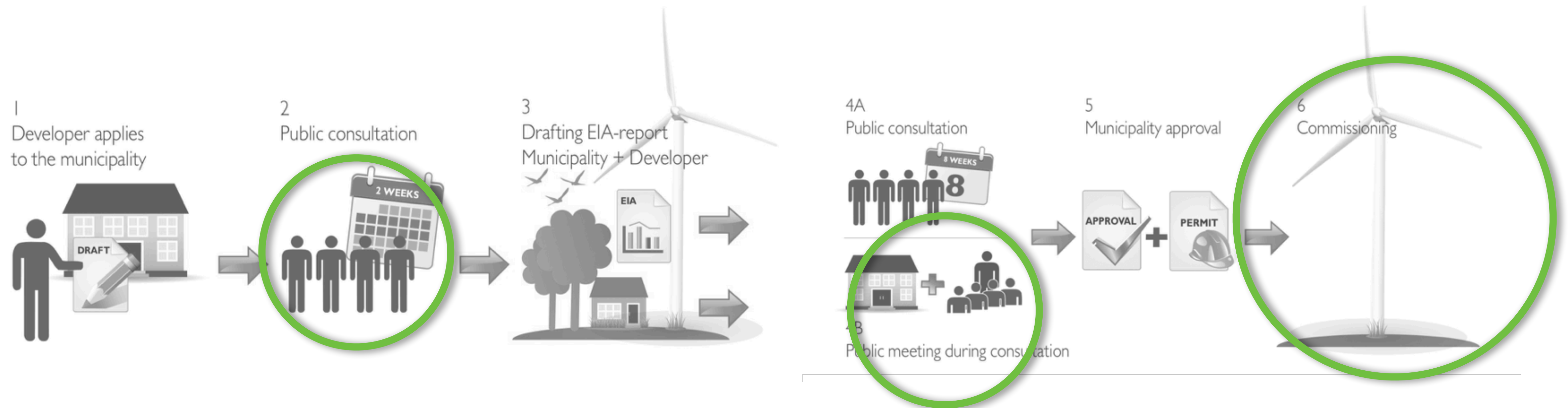


Guarantee fund to support financing of preliminary investigations by local wind turbine cooperatives.

If planning process fails, the loan is reimbursed

2. Policies and practical measures in place today

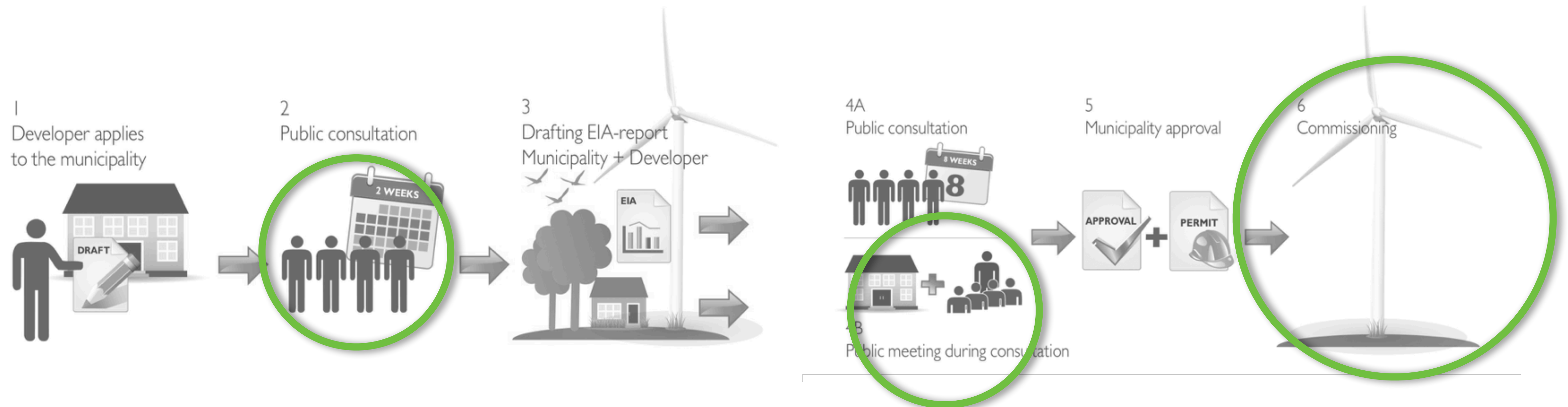
Four schemes promoting the local acceptance of and involvement



Local citizens' option to purchase wind turbine shares.
Allows the local citizens to purchase a minimum of 20 % of the wind project at cost price.

2. Policies and practical measures in place today

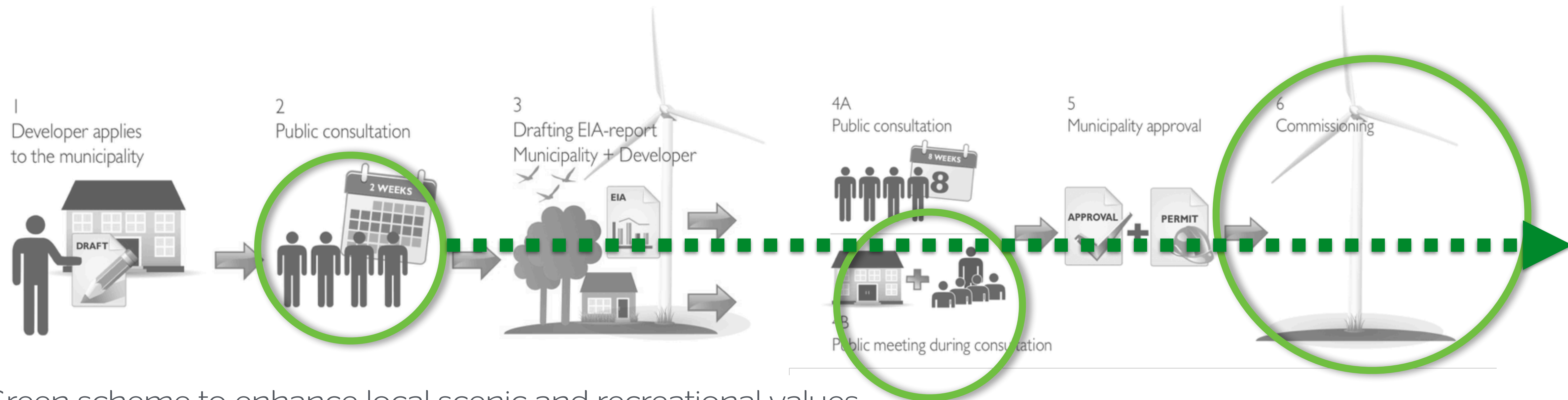
Four schemes promoting the local acceptance of and involvement



Compensation for loss of value to neighboring real estate, due to noise, visual impact, etc. **The compensation is paid by the project owner**

2. Policies and practical measures in place today

Four schemes promoting the local acceptance of and involvement

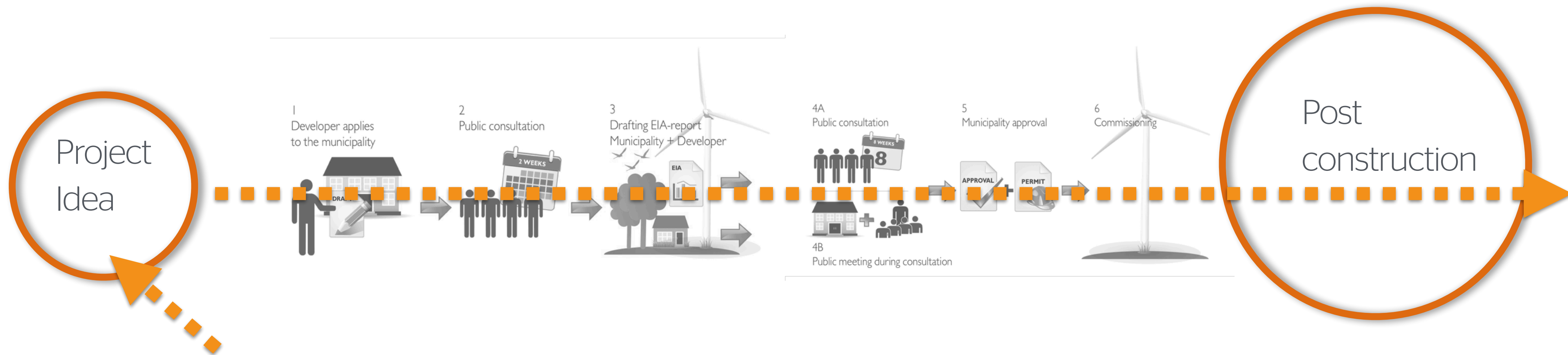


Green scheme to enhance local scenic and recreational values.

With the green scheme municipalities can sponsor community project. 11.300 € / installed MW. Financed by the PSO (Public Service Obligation-tariff)

2. Policies and practical measures in place today

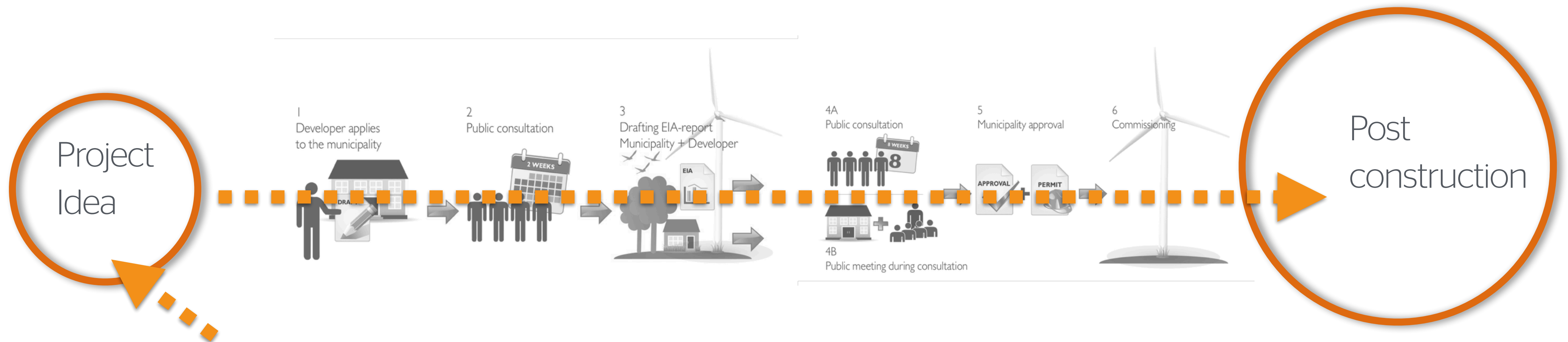
...(Local) developer/consortium driven actions



Benefit schemes that support the nearest townships (church, sportsclub, school, etc.)

2. Policies and practical measures in place today

...(Local) developer/consortium driven actions



Time limited offer to buy neighboring houses at a fixed price after evaluating the post construction situation

3. Case

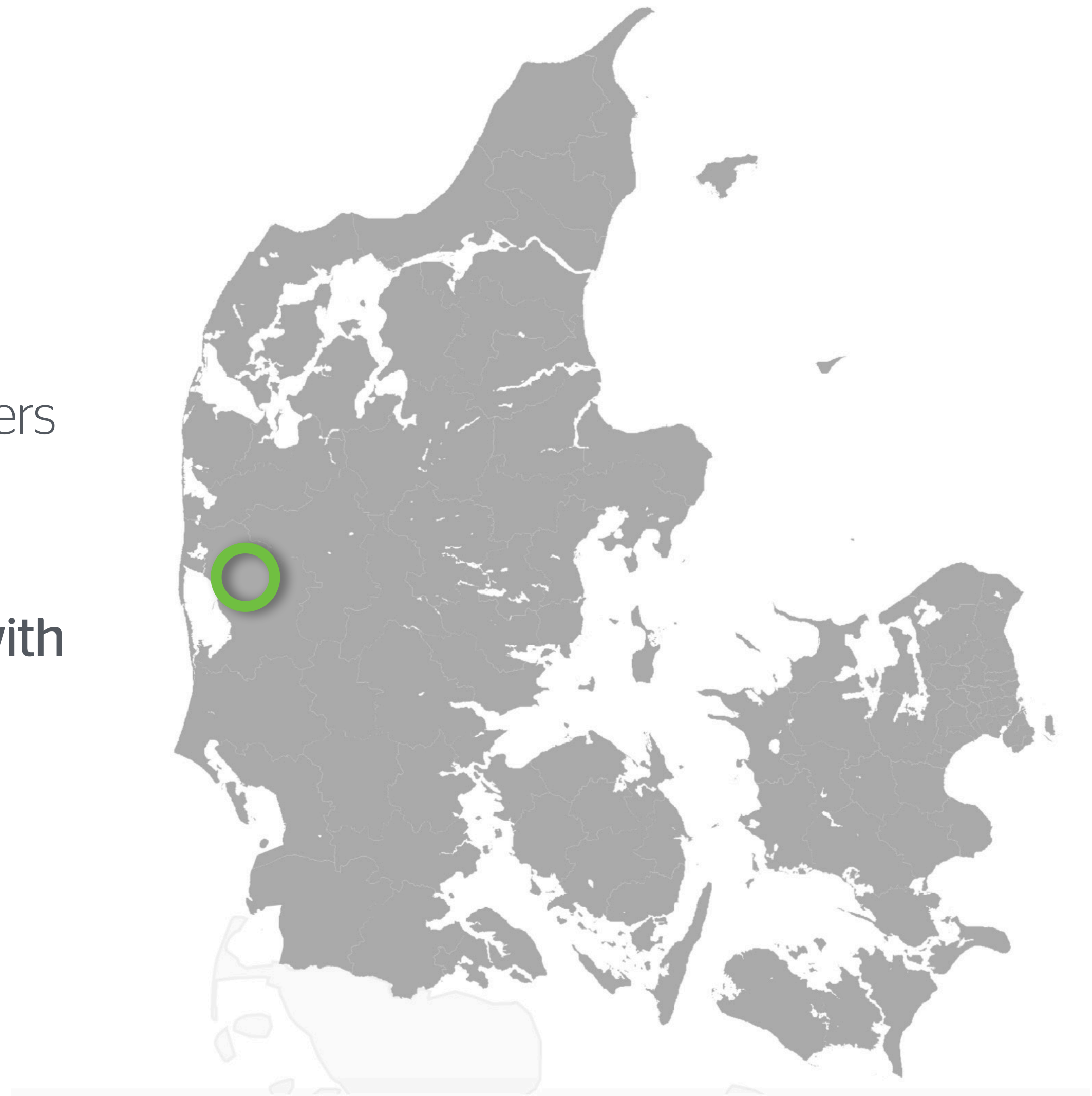
Nørhede-Hjortmose, Western Jutland

22 wind turbines, 72 MW, height 150 meter

Largest on-shore park in Denmark (in 2014)

Initiator: Consortium consisting of 8 local landowners
(all within 10 km from the new turbines)

**Project was from the very beginning designed with
community engagement as the basic DNA**



3. Nørhede Hjortmose

Township of No 1,3 km

12 housing units within 600 m from new turbines are purchased to make space

30 neighbors within 1 km from new turbines

Township of Østrup 2,4 km

Existing turbines removed



3. Nørhede Hjortmose

The Green scheme generates 850.000 € to be used on community projects

The scheme for compensation for loss of value to neighboring real estate.

4,4 turbines are sold as 44.000 shares to the local communities with in the municipality



3. Nørhede Hjortmose

30 neighbors within 1 km from new turbines are offered one year to evaluate the post construction situation. If dissatisfied they have a time limited offer to sell their house to the consortium to a fixed price + 10%

The consortium has initiated a benefit scheme that generates 2 x 30.000 € each year to No and Ølstrup townships, used to upgrade social and leisure facilities, and initiate future community projects



3. Nørhede Hjortmose

In connection with the establishment of the 22 wind turbines, you need a lot of sand. Therefore, it did not take long to revive an old idea of constructing a large lake west of Ølstrup, where the surplus soil was used for the establishment of the wind turbines.



3. Nørhede Hjortmose

The lake is used for leisure and recreational purposes all year round

Planning permission to new lakeside dwelling units



3. Nørhede Hjortmose



3. Nørhede Hjortmose



4. Next practice

Social media (fake news) is challenging the municipal planning processes!

Enhance fact based and proactive communication

Provide a transparent and embracing framework for public participation in the decision making process (public consultation procedures and consultation meetings).

Identify local ambassadors and community “enthusiasts” from day one

Design initiatives for local communities to increase and sustain local acceptance. Win-win solutions.

Thank you for your attention

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