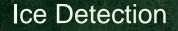
Rotor Blade Heating





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- The operating map represents the relationship between wind rotor speed generated power blade angle.
- The actual operating data is compared with the expected values according to the operating map
- If there is a difference the WEC shuts down and:

1. Without deicing system:

The WEC starts up again only after conditions no longer allow for ice formation. (If this is a frequent scenario, noticeable yield losses may be the result.)

2. With deicing system: Deicing process starts

Blade Heating



Rotor blade heating control

- 1. Ice detected
- 2. WEC shuts down
- 3. Rotor blade heating activated
- 4. Heating runs for a specified period of time
- 5. WEC starts up again automatically
- 6. If after startup, ice is still detected, the WEC shuts down again and the heating process restarts

→ Two different rotor blade heating systems

Blade Heating



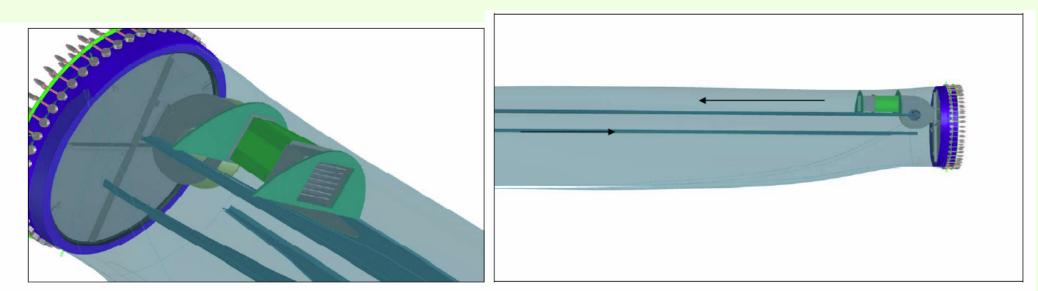


Figure 5: Representation of air flow

Figure 4: Blade heating integrated into rotor blade