Addition of ice loading module to FAST

David Malcolm,
DNV Renewables (USA) inc

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Some details

- In September 2011 we were awarded a contract under DOE's FOA for offshore technology
- We have now ironed out the contractual bumps and started work
- Objectives
  - Review and improve algorithms for surface ice loading
  - Applicable in arctic and inland waters (such as the Great lakes)
  - Applicable to monopile and jacket (truss) offshore supports
  - Static and dynamic loading
- Ice load algorithms: University of Calgary, Alberta,
  - Dr T.G. Brown
- Coding: DNV Renewables, Seattle
- FAST application and testing
  - NREL, NWTC
- Integration with HawC2 code
  - DNV Denmark / Germany and Riso National Laboratory

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Preliminary schedule

- December 2012. Draft loading algorithms complete
- February 2013. Draft coding complete
- February – June 2013. Incorporation of draft into FAST
- May – October 2013. Incorporation of draft into HawC2
- October 2013 - February 2014. Testing & finalize algorithms
- 2014. Release and dissemination of code to the public

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