



Tools for reduced environmental footprint



Ulf Johnsson
Concept Manager Mill Technology
Valmet Tissue

Definition of sustainable?



”GREEN” = SUSTAINABLE ??



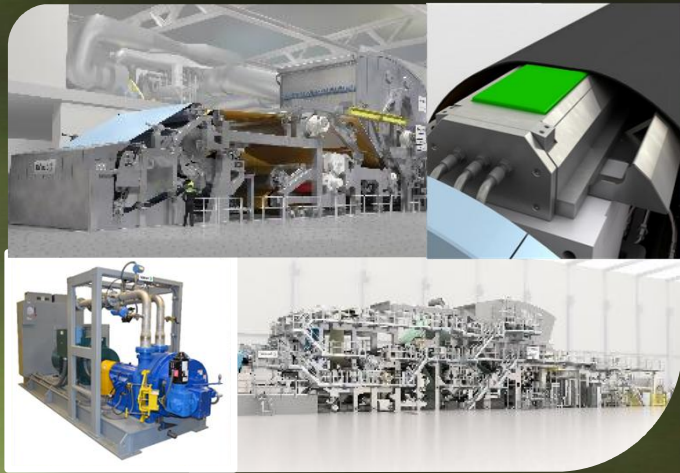
SUSTAINABLE = ABLE TO LAST OR CONTINUE FOR A LONG TIME



”Meeting the needs of the present generation without compromising the ability of the future generations to meet their own needs”

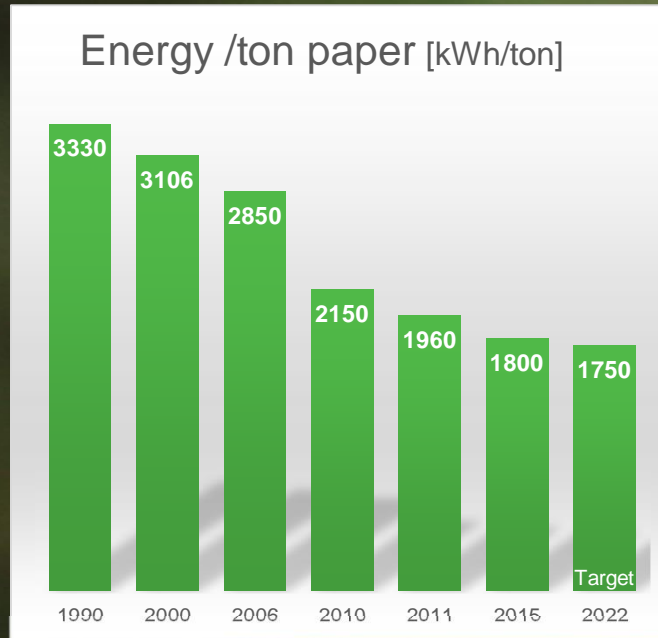
Driving development of resource efficient tissue production

Less fibre consumption**

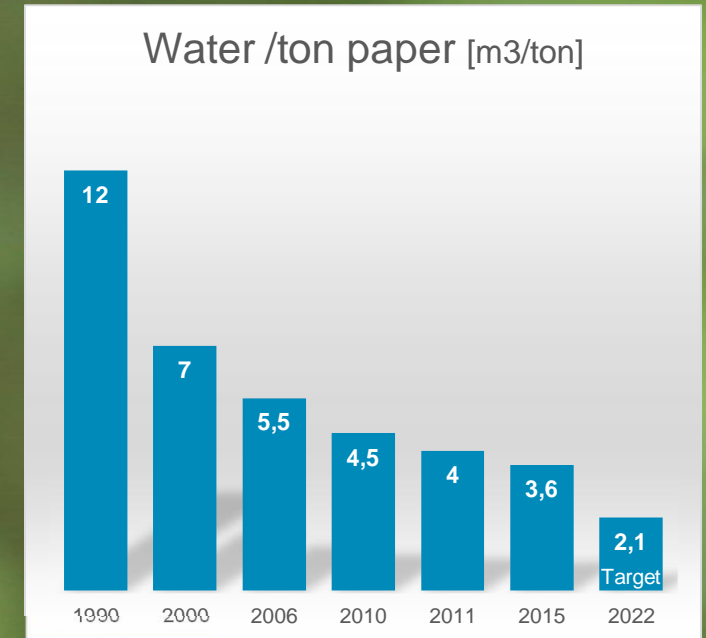


- Hybrid Technologies,
- ViscoNip press
- Non Wood fibers & MFC

47% less energy*



80% less water*



* DCT type of mill, same production and basis weight
 ** Achieving the same main tissue specific paper properties

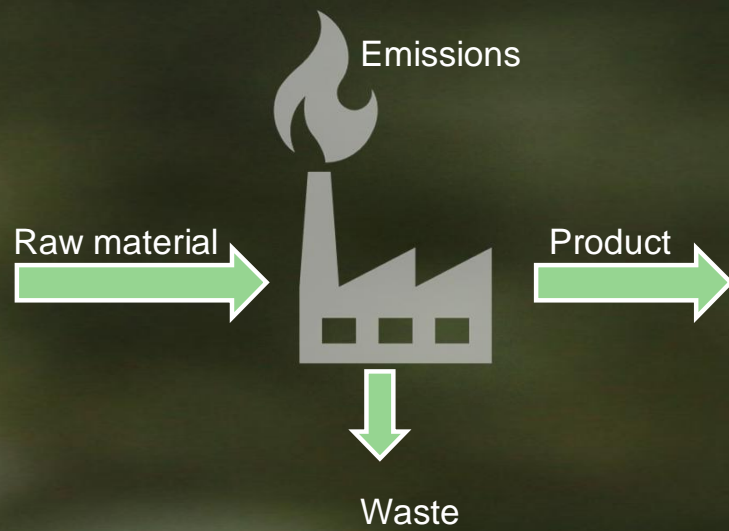


Valmet Tissue's approach for sustainable results

Covering several levels to achieve reduced environmental footprint during Tissue production

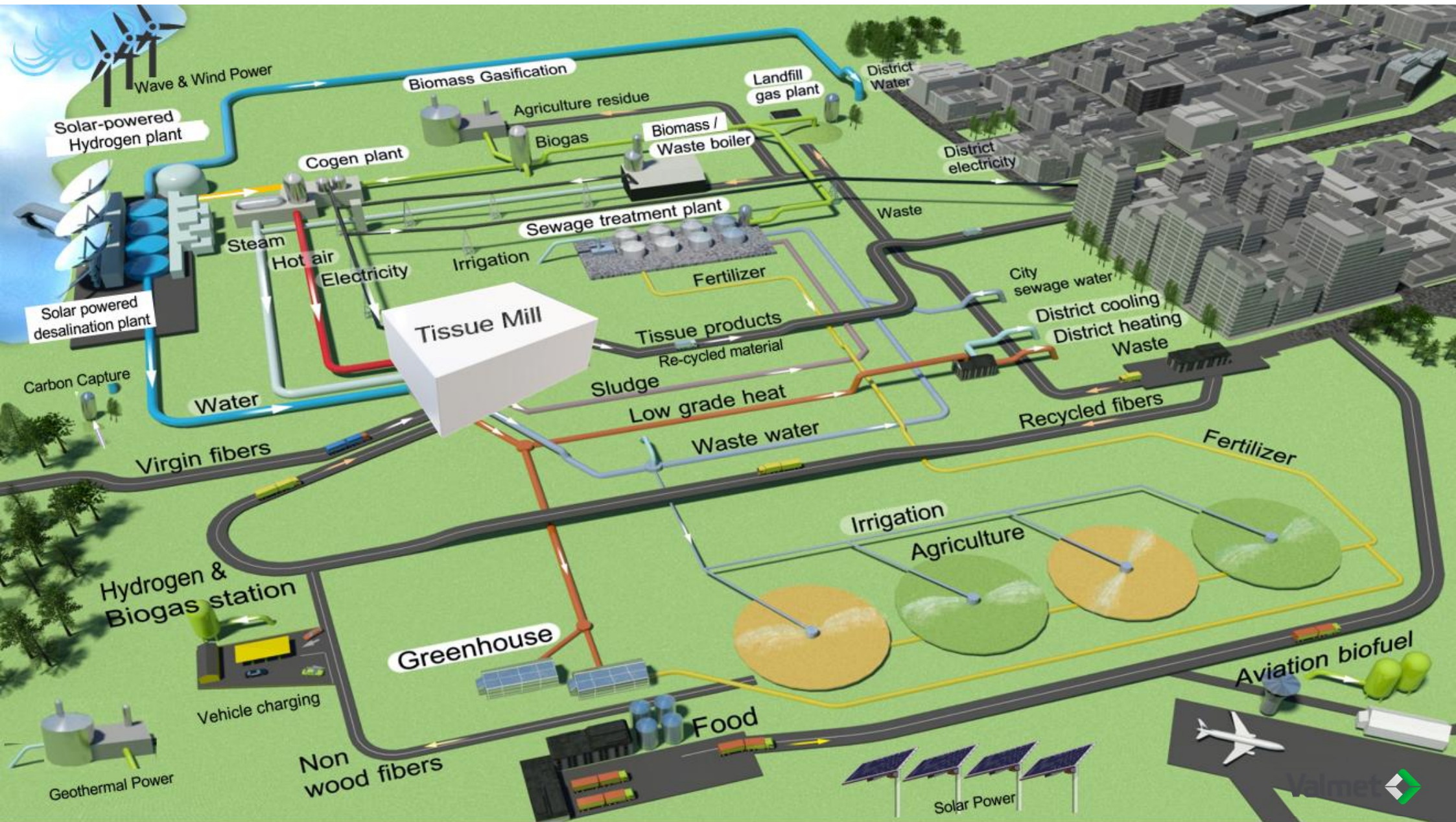


Linear resource flow



Circular resource flow

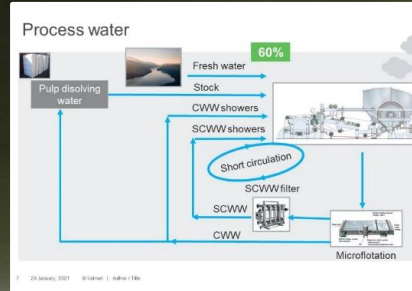




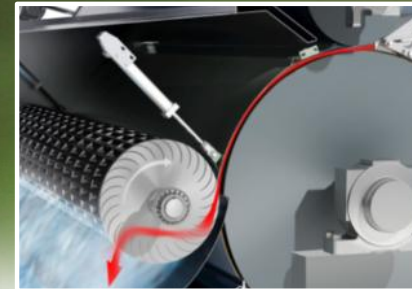
Potential for reduced environmental footprint within the production line



Electrical system



Project services



Advantage ReTurne



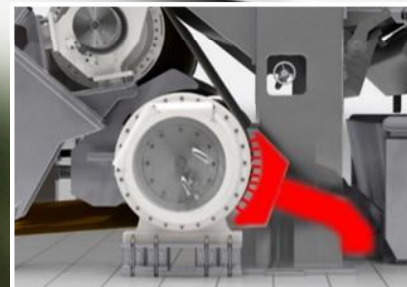
Advantage ViscoNip



Co-generation



OptiFiner Pro



Advantage ReDry



Valmet DNA automation system

Conclusion

- ÿ Holistic approach
- ÿ Circular resource flow
- ÿ Internal & External Symbiosis
- ÿ Long term commitment
- ÿ Waste and emissions etc looked upon as resources
- ÿ Vital role for technology
 - Potential to significantly reduce the environmental footprint
 - Utilize exiting technologies in new ways during a transition period to extend the life time of current assets
 - Serves a bridge between different businesses & solutions
 - Next generation of technology!
- ÿ Short term profit vs long term business health
- ÿ Balance between economy, environment & society

