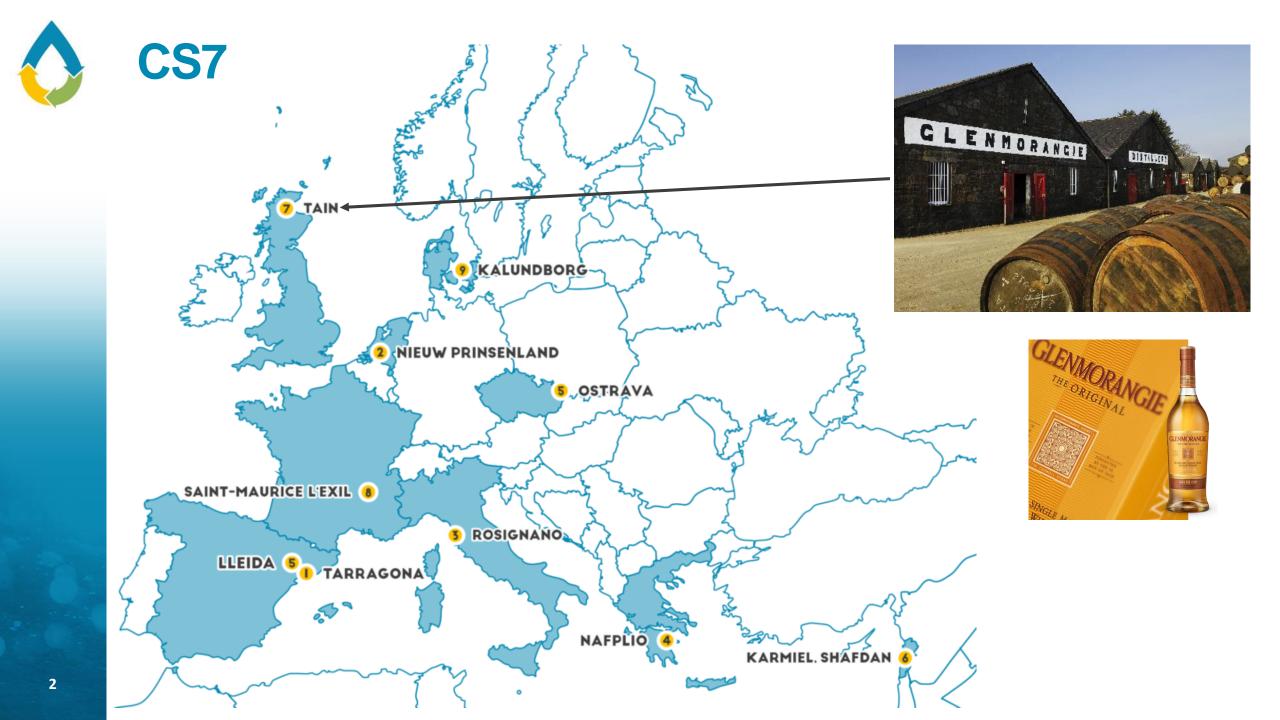


WATER SMART INDUSTRIAL SYMBIOSIS

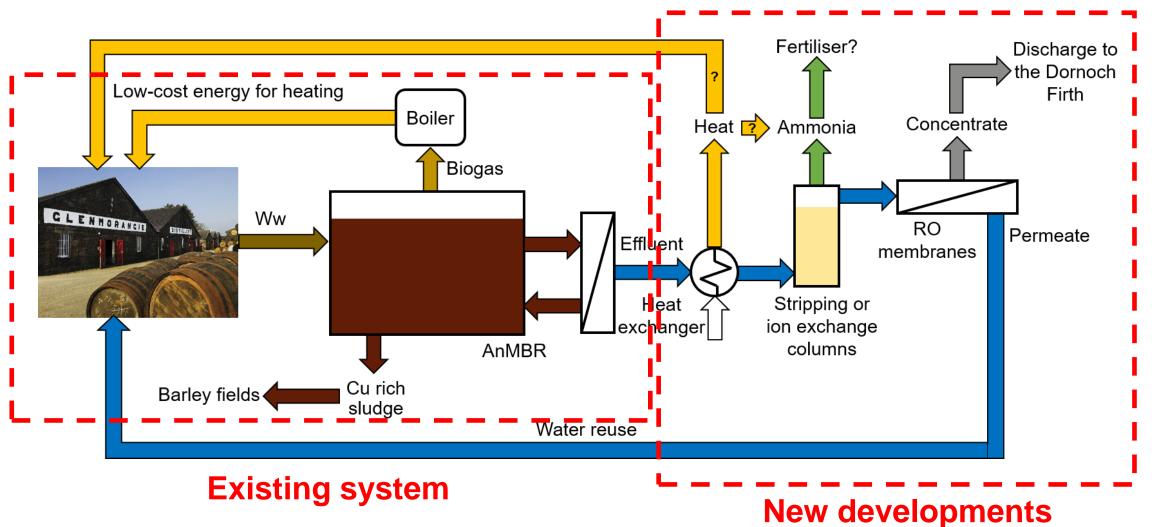
CS7 – Tain (Glenmorangie distillery)



Meeting: October, 30th 2020

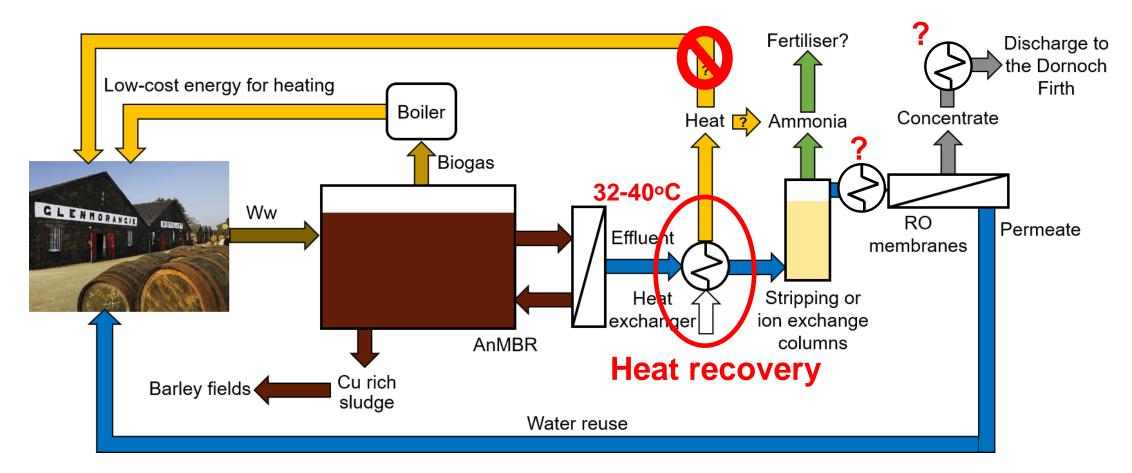






The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 869318

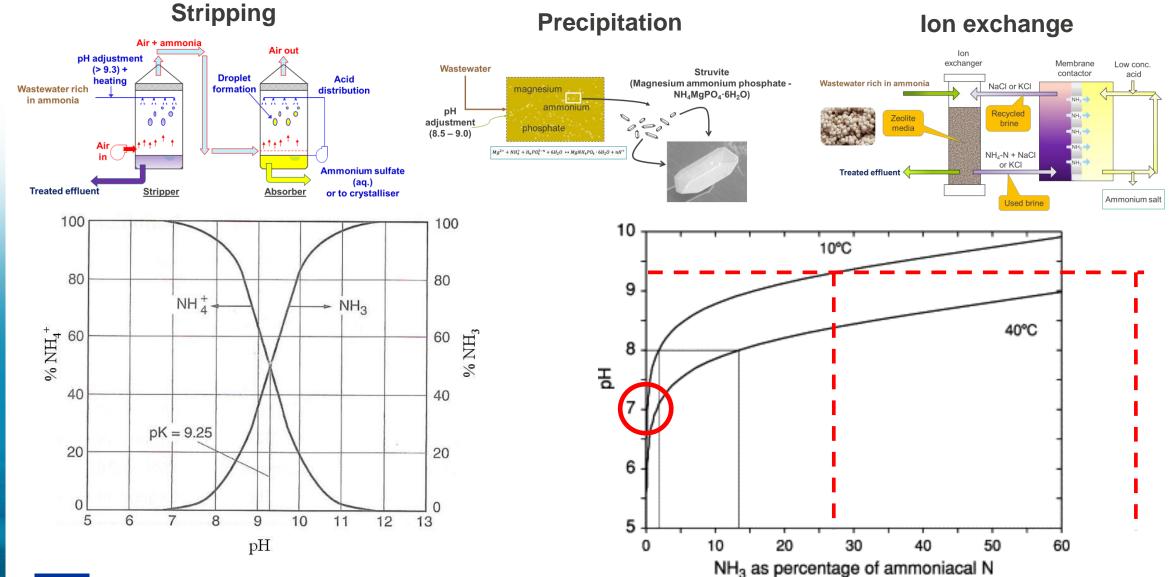






The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 869318

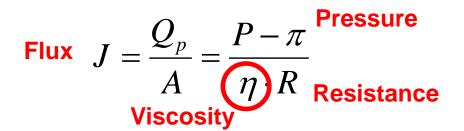
Impact of temperature: Ammonia recovery

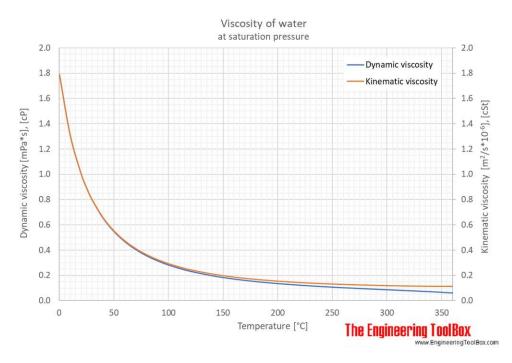




https://www.sciencedirect.com/topics/earth-and-planetary-sciences/ammonia

Impact of temperature: RO membranes

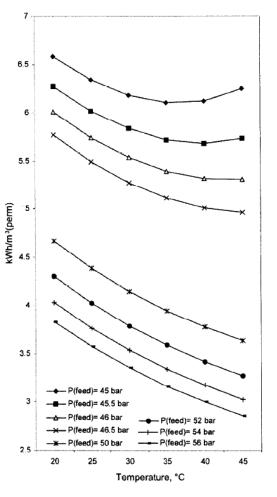






Temperature, °C	TDS, mg/l	Pressure, bar
5	12	27.3
10	13	23.1
15	14	19.7
20	16	17.0
25	17	14.8
30	19	14.8
35	21	11.9
40	23	10.8
45	26	9.8
50	28	9.0
55	31	8.3
60	35	7.7
65	38	7.2
70	43	6.8

https://www.researchgate.net/publication/26 4420571_Performance_of_Reverse_Osmosi s_Units_at_High_Temperatures



https://www.sciencedirect.com/science/art icle/pii/S0011916403800413?via%3Dihub



It's all about trade-offs!



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Thank you!