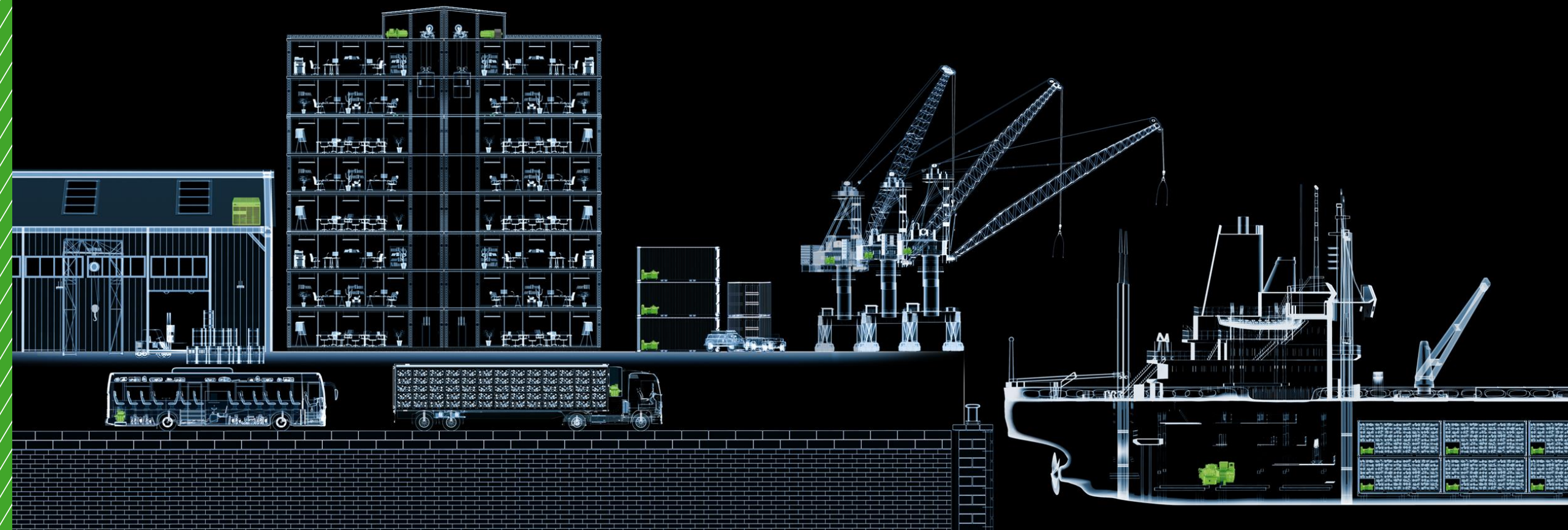


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EXPERTS.**





SUPPORTING FAST F-GAS-PHASE-DOWN IN REFRIGERATION AS COMPONENT MANUFACTURER

BITZER Kühlmaschinenbau GmbH // Chillventa Nürnberg // 2022-10-11
Heinz Jürgensen



DAS HERZ DER FRISCHE

FLUORINATED GREENHOUSE GAS REGULATION EU



// Strongest tool of EU F-Gas Regulation 517/2014/EU

- Phase down mechanism

// Additional measures

- Complete bans for certain applications

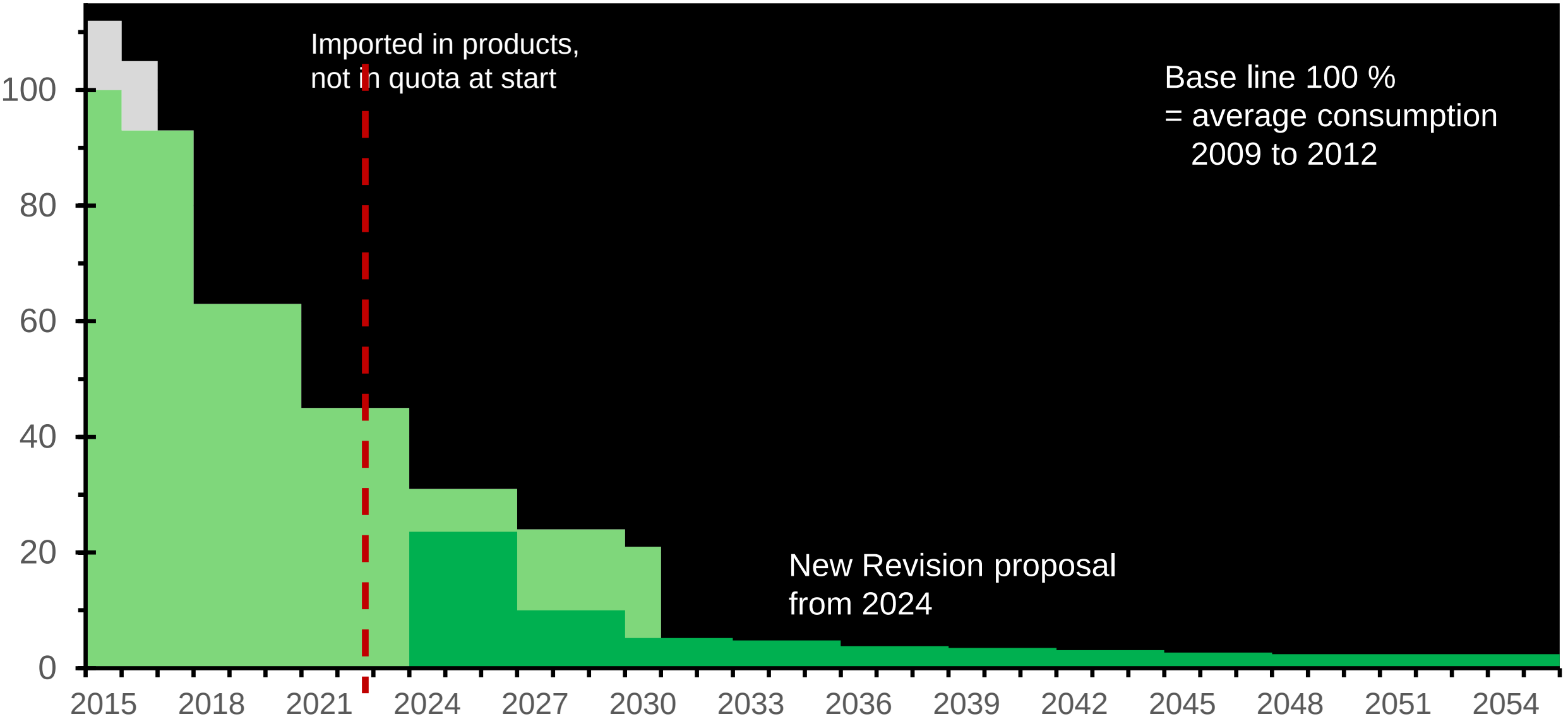
// Supporting measures

- Application bans for high GWP gases

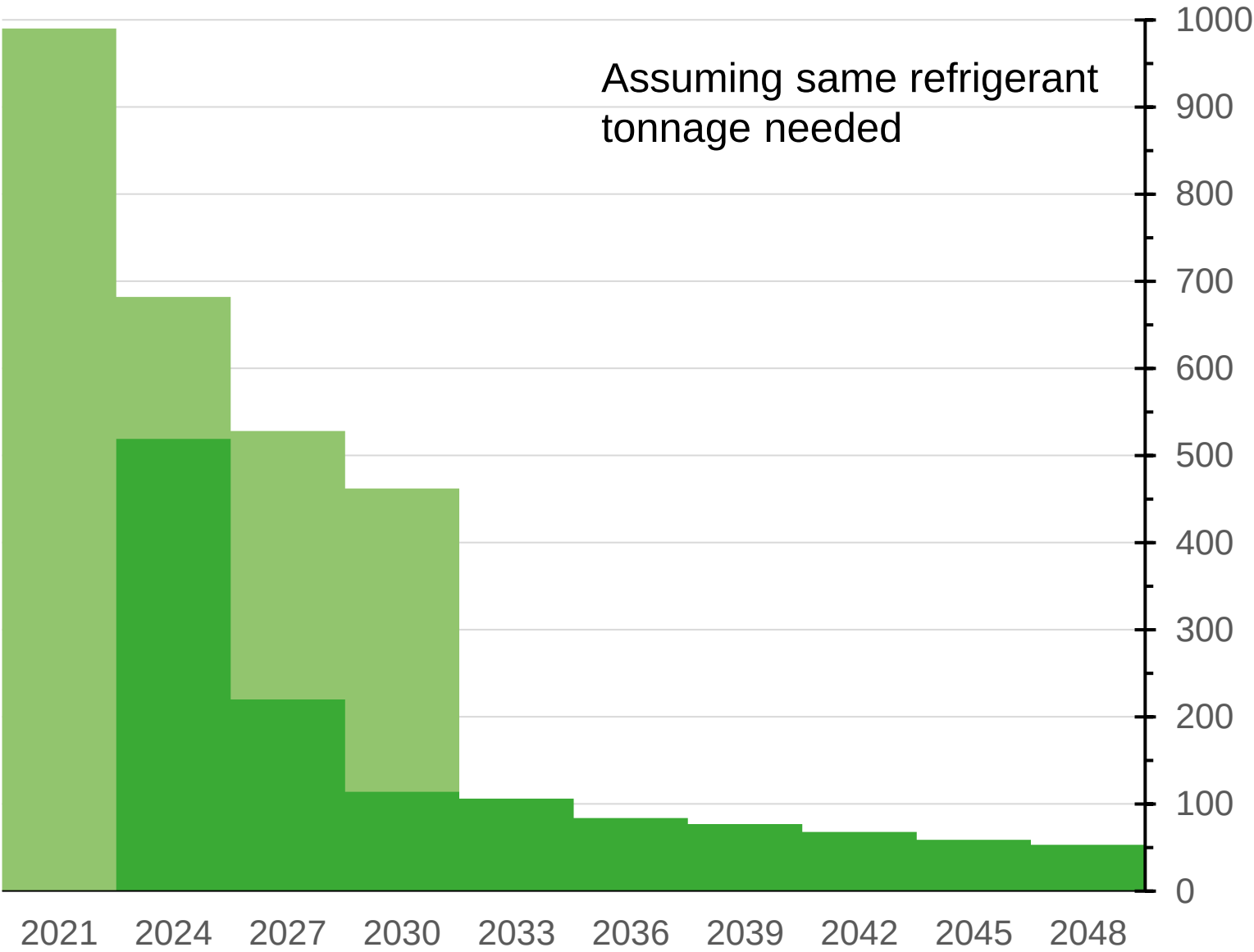
// 2022-04-05 Revision proposal for EU F-Gas Regulation

- practically phase out of F-Gases

PHASE-DOWN SCENARIOS 517/2014 AND PROPOSAL

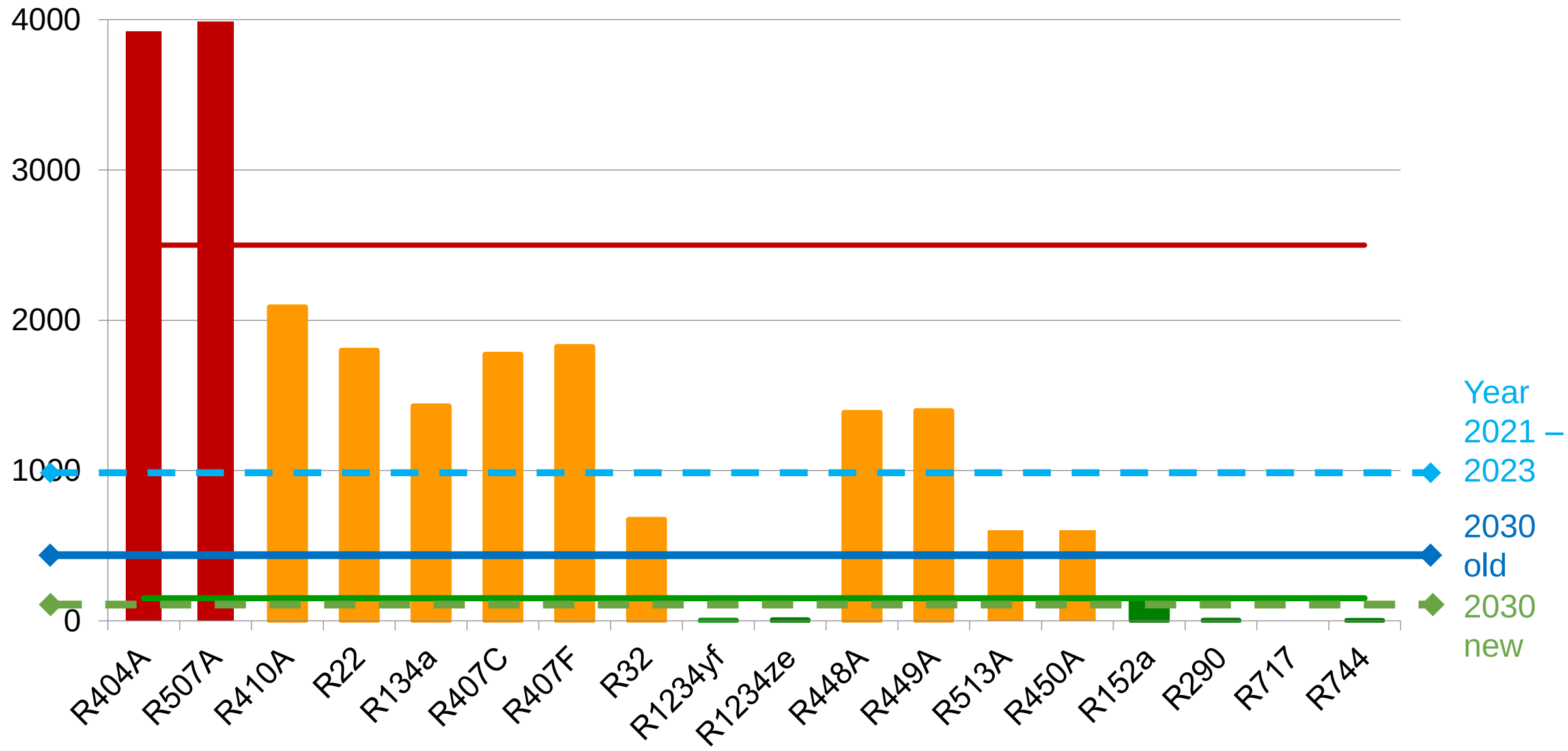


EXPECTED AVERAGE GWP VALUES



year	% 517/2014	Avg GWP 517/2014	% Rev. prop.	Avg GWP prop.
2015	100	2200		
2016	93	2046		
2018	63	1386		
2021	45	990		
2024	31	682	23,6	519
2027	24	528	10	220
2030	21	462	5,2	114
2033			4,8	106
2036			3,8	84
2039			3,5	77
2042			3,1	68
2045			2,7	59
2048			2,4	53

SELECTION OF REFRIGERANTS ACCORDING TO GWP



// Information of effect on refrigeration, AC, HP

- Distilled out of Regulation, proposal, ...
 - to customers
 - to politicians, as feedback
 - Together with associations

// Show opportunities

- Products for naturally appearing substances as refrigerants
- Trainings on use of
 - R744 – carbon dioxide
 - R717 – ammonia
 - R290/1270 – hydrocarbons
 - Safe handling
 - Efficient design

QUESTIONS TO THE CONTENT



Please feel free to comment !

Disclaimer

// Contents of this presentation have been prepared based on own investigations and experience as manufacturer of components. The statements are our view and can not be purely objective and can not be base for any liability claims.

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