date

meeting CABINET

10 January 2007

agenda item number

JOINT REPORT OF THE CABINET MEMBERS FOR FINANCE & PROPERTY, ENVIRONMENT AND PEOPLE & PERFORMANCE

BIO - ENERGY CAPITAL GRANT

PURPOSE OF THE REPORT

To seek approval of the Cabinet to accept the offer of a £500,000 Bio-Energy Capital Grant for investing in expansion of the woodheat boiler programme.

BACKGROUND

On the 15th January 2003 Cabinet approved the development of the Woodheat Project and that the Cabinet Member for People & Performance be the Council's nominated Director for Renewable Nottinghamshire Utilities Ltd (ReNU Ltd). Since then the Cabinet Member has received regular briefings and reports regarding the continued development of this initiative.

The Council made a commitment in the 2001-2005 Strategic Plan "Building a Future" to reduce CO_2 emissions from buildings by 25% by 2003. This target was delivered, primarily by the purchase of green electricity and replacing some old coal-fired boilers with gas. However, in 2003 the County Council entered into a Public Service Agreement (PSA) under which the CO_2 reduction target would be stretched to 27% by 2006, and for the last three years we have been installing or converting boilers in buildings to burn wood rather than fossil fuels.

On the 19th September 2005 a report was presented to the Environment & Sustainability Standing Select Committee updating them on the progress of the Woodheat Boiler Programme. At this time five schools were operating on woodheat and a further nine were being converted to wood pellets. The successful implementation of this programme has enabled the PSA CO₂ reduction target to be achieved.

The successful implementation of the woodheat initiative also contributed towards the Council being awarded Beacon Status for Sustainable Energy in 2005.

In order to stimulate the take up of woodheat boiler projects, the Government recently announced the Bio-Energy Capital Grant Scheme with Big Lottery Funding. The scheme is aimed at meeting the capital cost differential between fossil fuels and sustainable bioenergy installations. A bid was submitted for the maximum funding and the bid has been successful with a £500,000 grant being offered.

Further reports to be presented to the Cabinet Members for Finance & Property, Environment and People & Performance relating to the progress of this initiative.

EXISTING INSTALLATIONS

Summary

We have 15 boiler plants of varying sizes amounting to 6.5 MegaWatts (MW) burning in the order of 900 tonnes of Wood fuel and producing an annual reduction of 2,900 tonnes of CO_2 .

In addition to these completed installations, we are also taking part in a best practice demonstration programme funded by the Department of Trade and industry (DTI). Under this programme, one of the 5 large coal-fired boilers at Meden School and Technology College has been converted to operate on all types of wood fuel i.e. chips, pellets and Short Rotational Coppice (Willow). The successful conversion of this boiler has achieved further savings of 180 tonnes CO_2 per annum, bringing the total for woodheat to over 3,000 tonnes.

PROPOSAL

The Council has 70 remaining coal fired boiler sites which are in need of replacement or conversion. UK coal have indicated that the production of the type of coal they burn will be ceased in 3-4 years, whereupon we will have to import the coal from abroad and with the diminishing quantities required the cost of the coal is expected to rise significantly. Surveys have indicated that up 60 sites would be suitable for conversion to woodheat fuel some of which could proceed immediately if the grant funding is accepted. Corporate Property and Children & Young Persons Department have established budget provision for the replacement of these boilers and are keen to see a continuation of the woodheat programme. Now that the bid has been successful there is more likelihood that schools will choose the option to convert to woodheat.

The proposal for this grant funding is to replace or convert coal fired plant in around 27 schools for woodheat boilers. The replacements would be for boilers that are near the end of their design life and may otherwise be replaced by gas or oil. The capital cost of installing a woodheat boiler is still currently higher than to replace with a gas boiler, but the grant money will cover this difference so that woodheat is comparable in cost. Boiler conversions cost significantly less than a replacement boiler but achieve the same carbon savings. This is a viable option for boilers with 5 to 10 year life remaining. Wood is a less aggressive fuel than coal and the conversion to wood pellets will extend the life of the existing boiler plant, reduce maintenance costs and increase efficiency.

If approved over the next two years this project will more than double the existing woodheat installations and deliver 27 new woodheat sites increasing pellet consumption by a further 1,000 tonnes a year. This will enable annual savings of a further 3,000 tonnes of carbon dioxide emissions to be achieved. It will also reduce smoke and pollutants and eliminate disposal of the waste coal ash, and as most schools already use 'green electricity' the woodheat programme forms an important step towards attaining 'carbon neutral' schools.

I:\Strategic Property\Business Support\CABINET+COUNCIL\Cabinet 10-1-07 BIO Energy Capital Grant.doc

The proposal is to individually assess each site for both gas and wood firing, whereupon a feasibility study with life cycle costings will be carried out. Attached is an example feasibility study for information which includes installation costs, maintenance, fuel consumption costs, and attendance costs for the life of the plant. **See Appendix 1**

SUMMARY OF APPENDIX

From the appendix it can be seen that whilst the initial installation costs are higher for wood than gas by £4,378, the wood installation would attract a contribution from the Bioenergy Capital Grant (expected minimum of 20%) this combined with the reduction in maintenance, attendance expected increase in fuel costs gives an overall life cycle (25 years) cost saving against gas of £39,704

WIDER BENEFITS

The successful development of the woodheat initiative has seen a significant transformation of the woodheat market in Nottinghamshire.

- Grant funding of over £1 million has been secured by ReNU to establish a robust infrastructure for wood fuel supply including local pellet mills and installations of woodheat boilers
- Local boiler manufacturers, have supplied woodheat boilers and local installers have modified existing coal boilers to operate on wood pellets
- Other organisations, including 3 District Councils, have now committed to woodheat installations

A report was presented to the Cabinet Member for People and Performance on the 11th October 2006 relating to the success of the programme, to approve the procedure for tender of the wood fuel contract and to inform of the successful outcome of the Bio-Energy Capital Grant Bid. A further report on that agenda referred to the significant escalation of gas prices. During the past at 3 years wholesale prices have risen by almost 300% which now makes the consideration of woodheat more economically viable than gas.

FUTURE PROPOSALS

The boiler replacement programme will need to continue beyond the two years for which this grant funding applies and it is proposed that further funding be sought to assist with the continuation of the programme.

RECOMMENDATION

To seek approval of the Cabinet to accept the offer of a £500,000 Bio-Energy Capital Grant for investing in expansion of the woodheat boiler programme.

STATUTORY AND POLICY IMPLICATIONS

This report has been compiled after consideration of implications in respect of finance, equal opportunities, personnel, crime and disorder, human rights and those using the service. Where such implications are material, they have been described in the text of the report.

Councillor Chris Baron Cabinet Member for Finance and Property

Councillor Stella Smedley Cabinet Member for Environment

Councillor John Stocks Cabinet Member for People and Performance

LEGAL COMMENTS (SSR 5-Dec-2006)

The decision falls within the delegation to Cabinet.

STRATEGIC DIRECTOR OF RESOURCES' FINANCIAL COMMENTS (MB - 21-12-06)

The financial implications are outlined in the report, each time a site is identified a life-cycle costing exercise will be carried out to ensure the woodheat boiler is viable. If accepted this grant will lead to a variation in the capital programme of more than £250,000, this will require cabinet approval prior to any of the grant being spent. This is in accordance with Finance Standing Order 3.4 which states that 'The approval of the Cabinet is required for additional expenditure by Chief Officers, in consultation with the relevant Cabinet Member, greater than £50,000 (even though additional income may be available to finance the additional expenditure). This Standing Order shall apply both to a reduction in income and an increase in expenditure.'

BACKGROUND PAPERS AVAILABLE FOR INSPECTION

Nil.

ELECTORAL DIVISIONS

All Divisions

APPENDIX 1

Oil Total

Example Based On A Special School

Wood pellet boiler 61443 Estimated Grant availability min 20% 12289 Revised Cost 49154 Schools Contribution 1/3rd 16385 Replacement gas boiler 45065 Gas supply 12000 Gas TOTAL 57065 Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil 47 Annual operating costs £pa Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420 Wood TOTAL 8797	w min 20
Revised Cost49154Schools Contribution 1/3rd16385Replacement gas boiler45065Gas supply12000Gas TOTAL57065Schools contribution 1/3rd19022Replacement oil boilern/aCO2 emissionstonnes/annumCurrent coal85Wood pellets0Gas36Oil47Potential Bio. Cap. Grant contribution£12289Wood 20% - 40%12289Oiln/aCoal (2006 cost)3213Coal (2006 cost)3213Coal Total15663Wood pellets5377Wood maintenance & attendance5377Wood maintenance & attendance3420	w min 20
Schools Contribution 1/3rd 16385 Replacement gas boiler 45065 Gas supply 12000 Gas TOTAL 57065 Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum CUrrent coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution Kwood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Annual operating costs Epa 201 Coal (2006 cost) 3213 Coal Total 15663 Wood pellets 5377 Wood pellets 5377	w min 20
Replacement gas boiler 45065 Gas supply 12000 Gas TOTAL 57065 Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Annual operating costs £ pa Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Gas supply 12000 Gas TOTAL 57065 Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ 12289 Allow mir Gas n/a Oil n/a Annual operating costs £pa 1249 Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Gas TOTAL 57065 Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Oil n/a Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Schools contribution 1/3rd 19022 Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Modod 20% - 40% 12289 Allow mir Gas n/a Oil n/a Coal (2006 cost) 3213 Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Replacement oil boiler n/a CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Coal (2006 cost) 3213 Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
CO2 emissions tonnes/annum Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Coal (2006 cost) 3213 Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Current coal 85 Wood pellets 0 Gas 36 Oil 47 Potential Bio. Cap. Grant contribution Ywood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Gas n/a Oil n/a Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Wood pellets0Gas36Oil47Potential Bio. Cap. Grant contributionEWood 20% - 40%12289 Allow mirGasn/aOiln/aCoal (2006 cost)3213Coal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	w min 20
Gas Oil36 47Potential Bio. Cap. Grant contribution£Wood 20% - 40% Gas12289 Allow mirOiln/aOiln/aCoal (2006 cost)3213 12450Coal maintenance & attendance12450 15663Wood pellets5377 3420	w min 20
Oil 47 Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow min Gas n/a Oil n/a Oil n/a Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Potential Bio. Cap. Grant contribution £ Wood 20% - 40% 12289 Allow mir Gas n/a Oil n/a Annual operating costs £pa Coal (2006 cost) 3213 Coal maintenance & attendance 12450 Coal Total 15663 Wood pellets 5377 Wood maintenance & attendance 3420	w min 20
Wood 20% - 40%12289 Allow mirGasn/aOiln/aAnnual operating costs£paCoal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	w min 20
Gasn/aOiln/aAnnual operating costs£paCoal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	w min 20
Oiln/aAnnual operating costs£paCoal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	
Annual operating costs£paCoal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	
Coal (2006 cost)3213Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	
Coal maintenance & attendance12450Coal Total15663Wood pellets5377Wood maintenance & attendance3420	
Coal Total15663Wood pellets5377Wood maintenance & attendance3420	
Wood pellets5377Wood maintenance & attendance3420	
Wood maintenance & attendance 3420	
Wood TOTAL 8797	
Gas 5305	
Gas maintenance & attendance 1760	
Gas TOTAL 7065	
Dil 4523	
Dil maintenance & attendance 1960	

6483

and Cest Centribution Cest Section Cest Section Cest Section Section<		Hoat		Cabool											
KWh E		Demand		contribution		Cost									
id 158,211 5,305 if 19,025 if 5,106 if		kWh		£		£									
dd 158,211 5,377 multi Running Costs - (2006 - 2009) FUEL ONLY 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 61,443 2016	Gas	158,211	5,305			57,065									
	Wood	158,211	5,377			61,443									
Annual Running Costs - (2006 - 2030) FUEL ONLY 2016 2017 2013 2014 2015 2016															
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Annual Runnir	ng Costs - (20	006 - 2030) FUEL C	DNLY										
$ \begin{array}{ $	Year	2006			2009		2011	2012	2013	2014	2015	2016	2017	2018	2019
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-	2		4	5	9	7	8	6	10	11	12	13	14
5.377 5.431 5.436 5.540 5.540 5.540 5.540 5.981 5.940 <t< th=""><th>Gas</th><th>5,305</th><th></th><th>5,519</th><th>5,629</th><th>5,742</th><th>5,857</th><th>5,974</th><th>6,093</th><th>6,215</th><th>6,340</th><th>6,466</th><th>6,596</th><th>6,728</th><th>6,862</th></t<>	Gas	5,305		5,519	5,629	5,742	5,857	5,974	6,093	6,215	6,340	6,466	6,596	6,728	6,862
Ferrere W 72 20 -34 -99 -147 -205 -326 -323 -459 -57 -56 r 2016 201 -34 -99 -147 -205 -326 -323 -459 -57 -56 r 2016 2007 2007 2003 2004 1902 1,902 1,902 1,902 1,902 0 11 2016 <	Wood	5,377	5,431	5,485	5,540	5,595	5,651	5,708	5,765	5,823	5,881	5,940	5,999	6,059	6,120
Frence W 72 20 -34 -39 -45 -52															
Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost Repayment (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments at 8%) Capital Cost (Loan based on 120 equal month) payments (Loan based (Loa	Difference M v G		20	-34	-89	-147	-205	-266	-328	-393	459	-527	-597	099-	242
Capital Cost R=payment (i_can based on 120 equal monthly payments at 8%) Z010 Z011 Z012 Z013 Z014 Z015 Z016 Z016 <thz02< th=""> Z016 <thz02< th=""> <thz< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>10</th><th>200</th><th></th><th>2</th></thz<></thz02<></thz02<>												10	200		2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Capital Cost F	tepayment (L	oan based on 120	equal monthl	y payments at	(%)								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Year	2006			2(2010		2012	2013	2014	2015	2016	2017	2018	2019
		-	2		4	5	9	7	80	6	10	11	12	13	14
1,639 1,639 1,639 1,639 1,639 1,639 1,639 1,639 0 Future Cost $$	Gas	1,902		1,902	1,902	1,902	1,902	1,902	1,902	1,902	1,902	0	0	0	0
Future Cost Predictions - Delivered Heat (p/KVh) Future Cost Predictions - Delivered Heat (p/KVh) Predicted Annual Cost Predictions - Delivered Annual Vood Cost Predictions - Delivered Annual Vood Cost Predictions - Delivered Annual Cost Predictions - Delivered Annual Vood Cost Predivered Annual Vood Cost Predictions - Delivered A	Wood	1,639	1,639	1,639	1,639		1,639	1,639	1,639	1,639	1,639	0	0	0	0
Future Cost Predictions - Delivered Heat (p/M) Predicted Annual Wood Cost Increase (2% p.a.) Predicted Annual Wood Cost Increase (1% p.a.) Predic															
Predicted Annual Gas Cost Increases (2% p.a.) Predicted Annual Wood Cost Increase (1% p.a.) Predic		Future Cost P	redictions - D	elivered Heat (p/kV	(11)										
2006 2007 2008 2008 2008 2008 2008 2001 2016		Predicted Ann	ual Gas Cost	t Increases (2% p.a	()		Predicted An	nual Wood C	ost Increase	(1% p.a.)					
	Year	2006					2011		2013	2014	2015	2016	2017	2018	2019
		-			4	5	9	7	8	6	10	11	12	13	14
3.40 3.43 3.47 3.56 3.54 3.61 3.64 3.68 3.72 3.76 3.76 Note filed: $1 - 3$ $1 - 3$ $1 - 3$ $1 - 3$ $1 - 3$ $1 - 3$ $1 - 2$ 3.75 3.76 <td< th=""><th>Gas</th><th>3.35</th><th></th><th>3.49</th><th>3.56</th><th>3.63</th><th>3.70</th><th>3.78</th><th>3.85</th><th>3.93</th><th>4.01</th><th>4.09</th><th>4.17</th><th>4.25</th><th>4.34</th></td<>	Gas	3.35		3.49	3.56	3.63	3.70	3.78	3.85	3.93	4.01	4.09	4.17	4.25	4.34
Net effect on Schools - Annual costs and Capital Repayment 7,759 7,876 7,996 8,118 8,242 6,466 8,146 8,242 6,466 8,146 8,242 6,466 8,146 8,242 6,466 8,146 8,242 6,466 8,146 7,519 7,519 7,519 7,519 5,940 8,242 8,242 6,466 8,1	Wood	3.40	3.43		3.50	3.54	3.57	3.61	3.64	3.68	3.72	3.75	3.79	3.83	3.87
Net effect on Schools - Annual costs and Capital Repayment 7,207 7,313 7,421 7,532 7,644 7,759 7,876 7,996 8,118 8,242 6,466 8 7,201 7,313 7,421 7,532 7,644 7,759 7,876 7,996 8,118 8,242 6,466 8 7,016 7,069 7,124 7,179 7,234 7,290 7,346 7,461 7,519 5,940 note -191 -7,016 7,124 7,179 7,294 7,346 7,461 7,519 5,940 note -191 -244 -298 -353 -410 -469 -530 -522 -522 -527 -527															
7,207 7,313 7,421 7,532 7,644 7,759 7,876 7,966 8,118 8,242 6,466 8. 7,016 7,069 7,124 7,179 7,234 7,290 7,346 7,461 7,519 5,940 7,619 5,940 7 7,016 7,069 7,124 7,179 7,234 7,290 7,346 7,461 7,519 5,940 7 106 -10 -10 -10 -410 -409 -530 -592 -656 -722 -527<		Net effect on	Schools - A	nnual costs and C	apital Repay	/ment				-					
7,016 7,069 7,124 7,179 7,234 7,290 7,346 7,461 7,519 5,940 7 nce 191 -244 -298 -353 -410 -469 -530 -592 -656 -722 -527	Gas	7,207			7,532	7,644	7,759	7,876	7,996	8,118	8,242	6,466	6,596	6,728	6.862
Ince -191 -244 -298 -353 -410 -469 -530 -592 -656 -722 -527	Wood	7,016			7,179	7,234	7,290	7,346	7,404	7,461	7,519	5,940	5,999	6,059	6,120
Ince -191 -244 -298 -353 -410 -469 -530 -592 -656 -722 -527															
-191 -244 -298 -353 -410 -469 -530 -592 -656 -722 -527	Difference														
	N < G	-191	-244		-353	-410	-469	-530	-592	-656	-722	-527	-597	-669	-743

					169,912	151,867	-18 045	pt plpt			38,044	16,385				107	96	207 QEC	201, 100	168,252	-39.704
			Total						Total					Total							
			2030 Total	25	8,532	6,828	-1.705		2030 Total	25	1,902	0		2030 Total	25	5.39	4.32	10.435	0.04.01	6,828	-3.607
			2029	24	8,365	6,760	-1,605		2029	24	1,902	0		2029	24	5.29	4.27	10.267	103101	6,/60	-3,507
			2028	23	8,201	6,693	-1.508		2028	23	1,902	0		2028	23	5.18	4.23	10 103	001.01	0,093	-3,410
			2027	22	8,040	6,627	-1.413		2027	22	1,902	0		2027	22	5.08	4.19	9.942		0,021	-3,316
			2026	21	7,883	6,561	-1.321		2026	21	1,902	0		2026	21	4.98	4.15	9.785		100'0	-3,224
			2025	20	7,728	6,496	-1,232		2025	20	1,902	0		2025	20	4.88	4.11	9.630	007 0	0,430	-3,134
			2024	19	7,576	6,432	-1,145		2024	19	1,902	0		2024	19	4.79	4.07	9.479	007.0	704'0	-3,047
			2023	18	7,428	6,368	-1,060		2023	18	1,902	0		2023	18	4.69	4.03	9.330	020.2	00000	-2,962
			2022	17	7,282	6,305	226-		2022	17	1,902	0		2022	17	4.60	3.99	9.184	20E	0000	-2,879
			2021	16	7,139	6,243	-897		2021	16	1,902	0		2021	16	4.51	3.95	9,042	6 242	0140	-2,799
			2020	15	6,999	6,181	-819		2020	15	0	0		2020	15	4.42	3.91	6,999	G 181	5	-819