



Products that not only **SAVE** the **ENVIRONMENT** and **SAVE MONEY** too.

What a **BRIGHT IDEA!!**

Office lighting could be considered a dull subject, but the NextG Fluoro range will change what you think and put it into a new light. What an illuminating experience.

Investigations have shown that a whiter light, which includes greater coverage of the visible spectrum, can have a positive affect on mood and concentration. Visual acuity is also improved and eyestrain reduced by light which doesn't flicker. Group these factors together with possible savings of around 35% and you've got an unbeatable combination.*

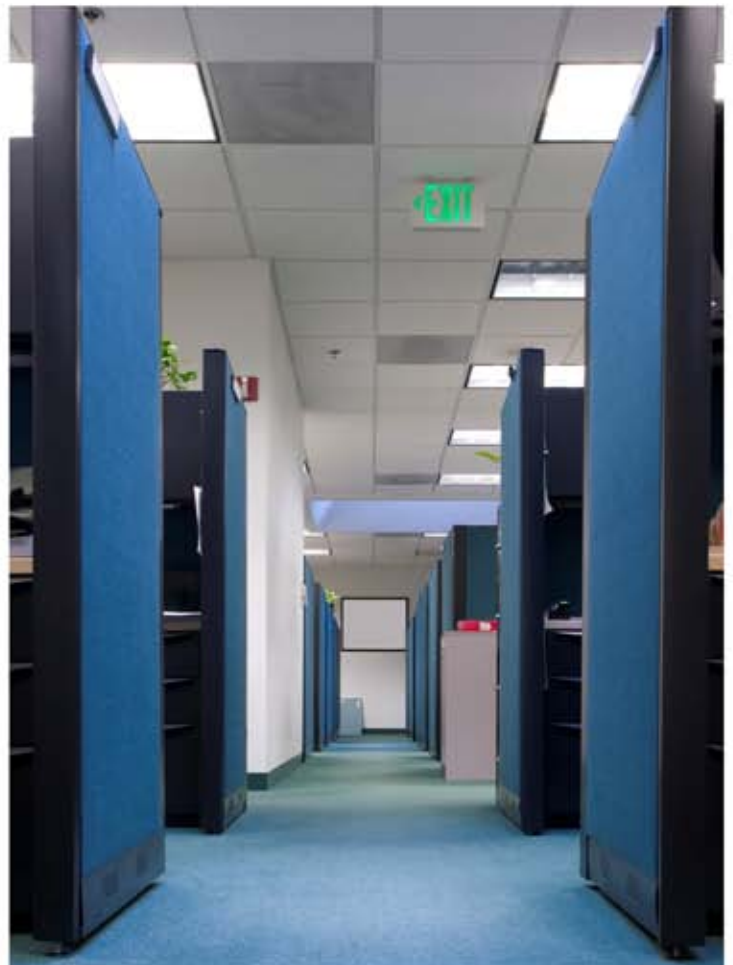
The NextG Fluoro is a T8-T5 retrofit kit that is designed to fit into existing T8 fluorescent fixtures. Simply remove the current tubes and starters and the power correction capacitor and replace directly with the NextG Fluoro.

The electronic ballast incorporated into the body of the retrofit kit not only makes existing starters redundant, but improves the stability of light to uncompromising levels.

With a range of lengths to suit popular fixture sizes and with a high-grade reflector to focus light on your task, saving money is as easy as flicking a switch.

Problems with conventional fluorescent tubes

Conventional fluorescent tubes only use one type of fluorescent powder in their tubes. These halo phosphor tubes produce light of a limited visible wavelength. This can have a dim appearance and with standard magnetic ballasts – or starters – this, more often than not, flickers as well, and it could hum too. This dull light with flicker can not only cause eyestrain but also fatigue. Replacement of magnetic ballast with electronic ballast can increase electrical efficiency but the biggest change that would be noticed by doing this is the elimination of flicker.



*Compared to 2x36W Conventional fluorescent tubes and ballasts

MORE MERCURY is produced in the **BURNING OF COAL** for energy than in **FLUORESCENTS LIGHTS**

ESL Order Product List



ESL28F2

ESL 28W T5 With Ballast & Small Mirror Reflector (120cm) Broader Light SideWays



ESL35F4

ESL35W With Ballast No Reflector (150cm)



ESL28F4

ESL 28W T5 With Ballast No Reflector (120cm)



ESL21F4

ESL21W With Ballast No Reflector (90cm)



ESL14F4

ESL 14W With Ballast No Reflector (60cm)

Possible Savings Comparison:

	NextG Fluoro	Single T8 Batten	Dual T8 Batten
Rate Wattage	28W	36W	36W
Actual Wattage with ballast	28W	43W	43W
Electricity Cost	\$0.17/kWh	\$0.17/kWh	\$0.17/kWh
Hours Used	10,000	10,000	10,000
Total Cost	\$47.60	\$73.10	\$146.20
Cost Saving	-----	\$25.50	\$102.00
Energy Saving	-----	35%	70%

NB: As with any lighting solution, additional task lighting may be required in circumstances where illuminance on working surface is insufficient to undertake the given task.

Saving put into practice:



An office replacing two hundred conventional 36W fluorescent tubes with two hundred **ESL 28W NextG Fluoro** tubes all operating for 10 hours a day, 5 days a week for 48 weeks in the year could save around **\$1305** and **80.35kg of CO2**** per year.

**Based on QLD emission factor 1.046kg CO2-e/kWh

INSTALLATION FOR A HIGH POWER FIXTURE

There are 5 easy steps to install ESL Next G Fluoro (T5 Retrofit T8):

1. Turn off the power supply.
2. Take the T8 tube out.
3. Take the starter out.
- 3a. Remove Power Factor Correcting Capacitor (power factor will be reduced)
4. Install the ESL T5 light the same way as you install normal T8 light.
5. Push the ESL T5 light in and twist it up.



no.2 - take the T8 tube out



no.3 - take the starter out



no.4 - Replace with ESL T5 Light



no.5a - Push the ESL T5 light in



no.5b - Twist the ESL T5 light up

Model	Watts	Voltage	Current	Power Factor	Colour Temp	Tube Life	Dimensions
	(W)	(V)	(A)		(K)	(hours)	WxHxL (mm)
ESL14F4	1X14W	240	0.06	0.96	2700, 4200, 6400	18,000	24X36X600
ESL21F4	1X21W	240	0.09	0.96	4200	18,000	15X26.6X950
ESL28F2	1X28W	240	0.13	0.96	2700, 4200, 6400	18,000	33X30X1200
ESL28F4	1X28W	240	0.13	0.96	2700, 4200, 6400	18,000	24X35X1200
ESL35F4	1X35W	240	0.17	0.96	2700, 4200, 6400	18,000	24X35X1500

	Batten with 2x36W T8 tubes			Batten with 2x28W T8-T5 Retrofit			Batten with 1x28W T8-T5 Retrofit		
Rated Wattage	72			56			28		
Raw Watts	86			56			28		
Ballast	0			0			0		
Effective Watts	86			56			28		
hrs/day	Days per week (cost per year)			Days per week (saving per year)			Days per week (saving per year)		
	5	6	7	5	6	7	5	6	7
8	\$30.41	\$36.49	\$42.57	\$10.61	\$12.73	\$14.85	\$20.51	\$24.61	\$28.71
12	\$45.61	\$54.74	\$63.85	\$15.91	\$19.09	\$22.28	\$30.76	\$36.92	\$43.07
16	\$60.82	\$72.98	\$85.15	\$21.22	\$25.46	\$29.70	\$41.02	\$49.22	\$57.42
20	\$76.02	\$91.23	\$106.43	\$26.52	\$31.82	\$37.13	\$51.27	\$61.53	\$71.78
24	\$91.23	\$109.47	\$127.72	\$31.82	\$38.19	\$44.55	\$61.53	\$73.83	\$86.14

										electricity	electricity	electricity			
	Fluorescent Light fittings (36W triple)	Fluorescent Light fittings (36W double)	Fluorescent Light fittings (36W single)	Incandescent Bulbs	Other Lights	Security Lighting	TOTAL TUBES	TOTAL NEXT G TUBES	HOURS USED	TOTAL COST	NEXT G COST	SAVINGS	KILO WATTS	NEXT G KILO WATTS	SAVINGS
OFFICE A	27	564	348	8	0	0	1557	1557	6.7	18753.95	14629.9	4124	110317.3	86058.5	24258.84
B	43	898	89	33	121	2	2014	2014	8.4	30413.62	18924	11489.6	178903.6	111317.8	67585.81
C	93	51	57	9	4	5	438	438	7	5511.902	4115.55	1396.35	32422.95	24209.14	8213.814
D	34	64	3	0	0	0	233	233	6.1	2555.142	2189.32	365.818	15030.25	12878.38	2151.872
E	0	406	42	24	18	0	854	854	6.56	10071.43	8024.39	2047.04	59243.69	47202.29	12041.4
F	55	396	1	17	0	0	958	958	8	13777.96	9001.6	4776.36	81046.8	52950.58	28096.22
G	125	22	4	11	0	0	423	423	11	8364.931	3974.61	4390.32	49205.48	23380.06	25825.42
H	166	241	10	18	3	1	990	990	7.92	14095.8	9302.28	4793.52	82916.46	54719.28	28197.18
I	66	264	35	9	42	84	761	761	11	15048.97	7150.54	7898.43	88523.33	42061.99	46461.33
J	0	452	73	4	6	60	977	977	8.32	14613.26	9180.13	5433.14	85960.37	54000.74	31959.62
TOTAL	609	3358	662	133	194	152	9205	9205	81	133206.9	86492.4	46714.6	783570.3	508778.8	274791.5

ESL LIGHTING - CASE STUDY

The company has two warehouses with forty-eight 400W Metal Halide (MH) lights burning for 11 hours a day, 5 days a week, 50 weeks of the year.

They also have one hundred double batten fluorescent fixtures in their two level office building at the front of the warehouses running for roughly equivalent timeframes.

Replacement of all existing lighting products with ESL Next Fluoro range of lights was undertaken in a staged roll-out.

- **Stage 1** - Warehouse 1 & 2 complete replacement
- **Stage 2** - Level 1 of the office building
- **Stage 3** - Level 2 of the office building

Figures for the Conventional Lighting solution were taken from the statement period **05/12/06** as shown on the Electricity Accounts (Account last year figures for average daily use). As with any business, fluctuations are likely to occur in energy usage.

The savings are purely attributable to the changes in the lighting methods. Office and warehouse workflow was not modified in any way and general items (photocopiers, refrigerators, air-conditioning units, computers, etc) are used in the same manner now as before. Increases in energy usage at Stage 2 rollout can be attributed to change of season from spring to summer 07 and the increased usage of air-conditioning systems until acclimatisation of office users to season occurred.

*To view scans of the original Electricity Accounts for the period shown above please browse to our website, select the information page and navigate to the Case Study section.

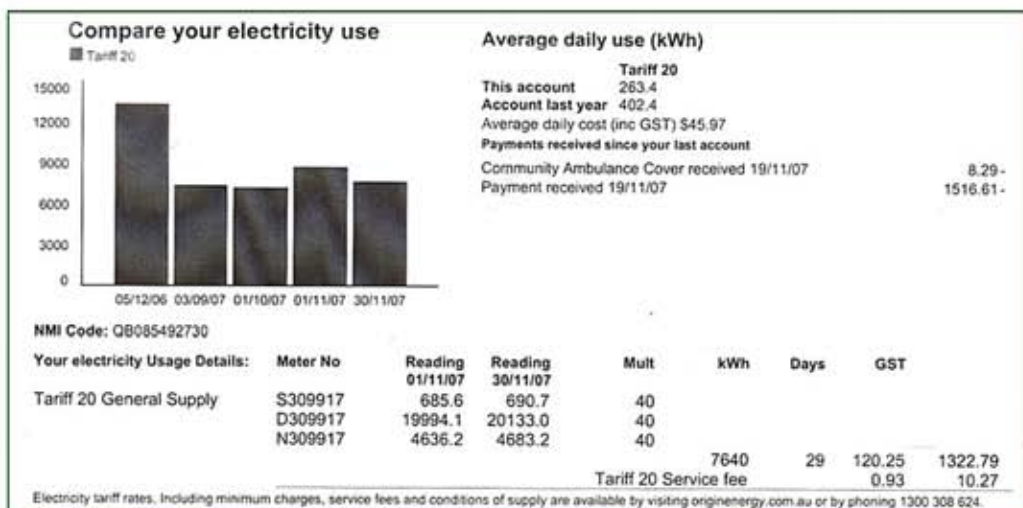
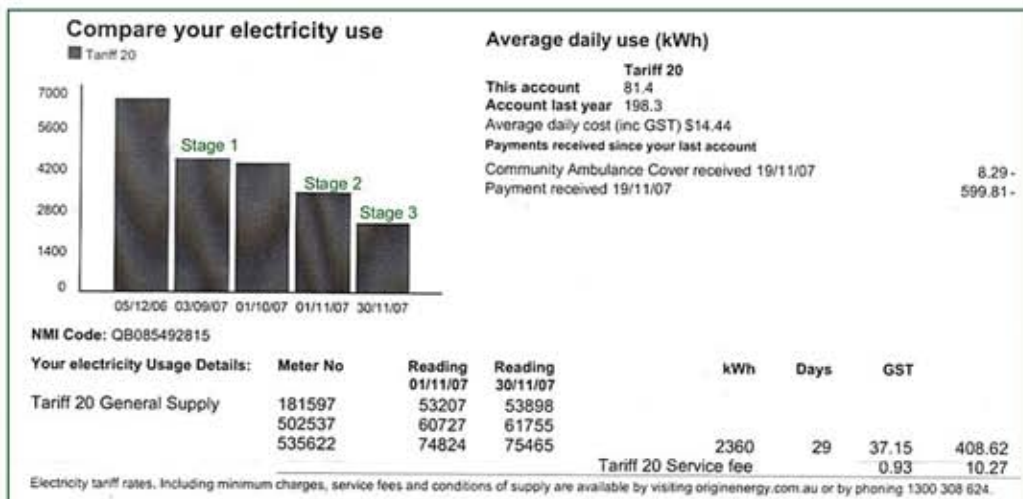
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Extracts from Origin Energy bills (dated 4 December 2007)*

Comparative Savings Table

	Conventional Lighting	ESL NextG Fluoro Range
Average daily use (kWh)	600.7	344.83
Days in period	29	29
kWh for period	17420.3	10000
Cost per kWh (\$)	0.173141	0.173141
Cost	\$3,016.17	\$1,731.41
Savings for period (29 days)		\$1,284.76
Savings per day		\$44.30
Estimated Savings per year		\$16,170.23 (Overall saving of 42%)

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