CANADA PENSION PLAN CHANGES.

Better Benefits For Some.

Divorce or Annulment.

CPP pension credits earned by a husband and wife during marriage may be divided equally between them if the marriage ends in divorce or annulment after January 1, 1978. This ensures that an asset accumulated through the efforts of both spouses while they were married can be shared equally by both when the marriage is dissolved.

Retroactive Payment of Retirement Benefits.

Retirement benefits may now be paid retroactively for a period of up to 12 months to contributors who had attained age 65 but who are under age 70 and who have retired from the labour force.

Post-Mortem Benefits.

Applications for retroactive benefits (i.e. up to 12 months) can now be made on behalf of a deceased person, in cases where a contributor qualified, but failed to apply, before death. Families or estates will be entitled to receive benefits in such cases.

Elimination of Reductions in Children's Benefits.

Orphans' and disabled contributors' children's benefits are no longer reduced for the fifth and subsequent children. All children in a family, regardless of its size, are eligible to receive equal benefits.

These important amendments to the Canada Pension Plan came into force on January 1st, 1978.
If you have any questions, contact the Canada Pension Plan office nearest you.

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If the problem is energy ...

Answer may be blowing in the wind

By ANNEGRET LAMURE

"We export power," boomed Philip Coulter enthusiastically. "We supply energy hungry countries with electricity."

His steel blue eyes take on an almost fanatical gleam as he talks about it. Coulter a large, enthusiastic man, is the head of ARCRAD, a fledgling company in Markham that hopes to build and market aerogenerators (windmills to you and me) which produce electricity.

Windpower provides an excellent alternative to conventional non-renewable energy resources and, Coulter believes, is in some ways superior to solar power. "The sun only shines during the day," he pointed out, reasonably "but the wind blows day and night."

Of course, Coulter admits that the wind is fickle and sometimes doesn't blow at all but he sees no major difficulty in this. ARCRAD's sleek, arodynamically styled wind machines come equipped with sophisticated battery storage systems which provide electricity even on calm days.

Coulter's company is founded on the belief that in view of the tremendous and ever increasing world demand for energy, aerogenerators make sense. Some experts predict that the world will run out of oil within the next decade or two, and many predict that hydro charges will rise horrendously in the near future. ARCRAD's aerogenerator systems, on the other hand, involve only an initial capital outlay and, Coulter feels, will pay for themselves in the long run. He admits that the large machines needed to supply all the power requirements of an average household are relatively expensive but points out that "You pay for hydro and you still haven't got anything."

His company manufactures machines ranging all the way from the tiny 30 watt 12 volt Wingen Mini-Gen (handy for boats and sheds) to a 2500 watt Winflo. As well, ARCRAD is the North American and Caribbean distributer for the high powered NOAH Energy Systems machines manufactured in Germany. The NOAH aerogenerators can produce up to 600 kw, enough to power small communities.

Depending on the windspeed, the average home would need at least two and possibly three or four 2500 watt units to provide adequate electrical output for household needs. Coulter estimates that a system of this type, which would include power plant towers, storage batteries, and an inverter to transform the D.C. current generated into A.C. household current, at about $10,000 or $11,000.

Windspeed itself is not crucial—the ARCRAD machines begin generating power at velocities as low as 7 mph and produce their rated capacities at between 17-22 mph. This means that when the wind is blowing at 17 mph a 1500 watt WINFLOW will be generating its rated output of 1500 watts.

At windspeeds higher than that the wattage will stay the same but the amperage will increase. The units can withstand windspeeds of up to 100 mph because of a unique spoiler system which spills out some of the wind at high velocities. Without the spoiler, the extremely high winds could theoretically drive the wing tip speeds up to Mach 1 (the speed of sound). Such high speeds place enormous stress on the units and are not desirable.

It stands to reason then, that the lack of adequate wind-monitoring facilities in Canada is one of Philip Coulter's major sources of frustration. "You ask the Department of Natural Resources where all the resources are and they'll tell you. They have maps for oil, gas, everything. But you ask them where the wind is and they say they don't know." Coulter's voice became intense as he continued, "We badly need government support in monitoring wind and solar power. Right now it's like you buying gasoline and not knowing how many mpg you're going to get."

Maps showing average wind speeds in an area are labelled "useless" by Coulter since high winds might be followed by long periods of calm, thus producing misleading statistics.

Coulter, who conducted the first ever wind energy inventory for the U.S. government in the Florida Keys, has been trying to interest the Canadian government in a similar program for the last five years with absolutely no success. He said that when the government finally agreed that wind inventories should be done they referred him "to the bloody airport". He explained indignantly that not only do airports lack the vital chart recorders needed for accurate monitoring, but they are often in the wrong place as well.

Of course some places (such as coastal areas) are so obviously windy there is no need for monitoring. Also, every area has some wind — if you can get up high enough. At 50 feet up (the minimum tower height recommended by Coulter for his machines) wind speed increases 12 to 20 per cent and by the time you get up as high as the CN tower the wind never stops. Velocities at the top of the tower have never dropped below 30 mph.

But the major market for aerogenerators, in Coulter's view, will be overseas.

"If you think there's an energy crunch in Canada, it's peanuts to what you encounter in primitive countries. A lot of those countries are so poor, they've never had electricity," he explained, . "Our company has a missionary outlook, we help people around the world get electricity for the first time."

ARCRAD has already sold some of the low powered (300 watt) machines retailing for under $1000 to church and missionary groups working in remote places such as Dela Gonave in Haiti.

His company also markets an even smaller unit — the 30 watt Mini-Gen (priced at $99.50) which comes complete with post, battery and two lights.

Wind power is a viable alternate energy source, according to Philip Coulter, the head of ARCRAD Ltd. in Markham. His company, long active in researching and developing the latest in wind-generators, will go into full production next week. Coulter plans to sell his aerogenerators which range from 30 to 2500 watts all over the world.

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☐ Best Thing That Ever Happened To Me
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☐ Brian's Song
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☐ I'm Not Lisa
☐ I'm Sorry
☐ I Only Have Eyes For You
☐ I Say A Little Prayer
☐ Is That All There Is
☐ It Must Be Him
☐ It Never Rains In Southern California
☐ It's Gonna Take Some Time
☐ It's Impossible
☐ It's Too Late
☐ I Won't Last A Day Without You
☐ I Write The Songs
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☐ Jesse
☐ Killing Me Softly With His Song
☐ Kiss Me Goodbye
☐ L'amour
☐ Laughter In The Rain
☐ Leaving On A Jet Plane
☐ Let It Be
☐ Let Me Be There
☐ Let Me Be The One
☐ Little Green Apples
☐ Lo Mucho Que Te Quiero
☐ Lonely Nights
☐ Longfellow Serenade
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☐ Lost Without Your Love
☐ L O V E
☐ Love Can Make You Happy
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☐ Loving Arms
☐ MacArthur Park
☐ Make It With You
☐ Mandy
☐ Massachusetts
☐ Me And Mrs Jones
☐ Me And You And A Dog Named Boo
☐ Midnight Blue
☐ Midnight Cowboy
☐ Morning Has Broken
☐ Mrs Robinson
☐ My Cherie Amour
☐ My Cup Runneth Over
☐ My Eyes Adored You
☐ My Little Town
☐ My Melody Of Love
☐ My Heart Belongs To Me
☐ My Love
☐ My Love Forgive Me
☐ My Sweet Lord
☐ Nadia's Theme
☐ Neither One Of Us
☐ Never My Love
☐ New Kid In Town
☐ Nobody Does It Better
☐ On And On
☐ One Less Bell To Answer
☐ Only Yesterday
☐ Piano Man
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☐ Play Me
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☐ Raindrops Keep Fallin' On My Head
☐ Rainy Day People
☐ Rainy Days And Mondays
☐ Rainy Night In Georgia
☐ Reach Out And Touch
☐ Red Roses For A Blue Lady
☐ Release Me
☐ Rock And Roll Lullaby
☐ Rocky Mountain High
☐ Romeo And Juliet Theme
☐ San Francisco
☐ Song For Anna
☐ Scarborough Fair
☐ Send In The Clowns
☐ Seasons In The Sun
☐ Sealed With A Kiss
☐ She
☐ Sing
☐ Sleepy Shores
☐ Smile A Little Smile For Me
☐ Snowbird
☐ Softly
☐ Solitaire
☐ Somebody Done Somebody Wrong Song
☐ Something
☐ Summertime
☐ Something Stupid
☐ Streets Of London
☐ Stop And Smell The Roses
☐ Somewhere My Love
☐ Song Sung Blue
☐ Sundown
☐ Sounds Of Silence
☐ Sunshine On My Shoulder
☐ Southern Nights
☐ Summer (The First Time)
☐ Stay Awhile
☐ Strangers In The Night
☐ Summer/Breeze
☐ Sunny
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☐ The Summer Knows
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☐ Theme from Mahogany
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☐ This Guy's In Love With You
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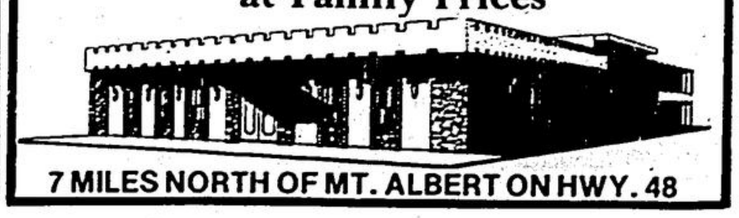

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